

CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 15 1953



n the radio*.... in the press in the tube ...

millions are being told

Somebody's going to need

Ika-Seltzer



or Indigestion, Headaches, Colds, Aches and Pains

* Tune into the Alk Selizer Programme from Radio Lembourg on Wednesdays p.m. and on Sundays at 9.15 p.m.





of procaine penicillin G

for administration in aqueous suspension
are designed to make penicillin therapy
more convenient to

practitioner and patient.

The prolonged effective action
of procaine penicillin G

makes frequent injections unnecessary.

In the majority of infections
single daily injections are adequate.

Distaquaine brand preparations
are easily prepared and administered.

There is little or no pain on injection
and the equipment is
easily cleaned after use.

Distaguaine brand preparations

'DISTAQUAINE' G

'DISTAQUAINE' FORTIFIED

'DISTAQUAINE' SUSPENSION

Distributed by

ALLEN & HANBURYS LTD.

BRITISH DRUG HOUSES LTD.

BURROUGHS WELLCOME & CO.

EVANS MEDICAL SUPPLIES LTD.

IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

'DISTAQUAINE', trademark, is the property of the manufacturers

'DISTAQUAINE' G

vials of 300,000, 900,000 and 3,000,000 units

'DISTAQUAINE' FORTIFIED

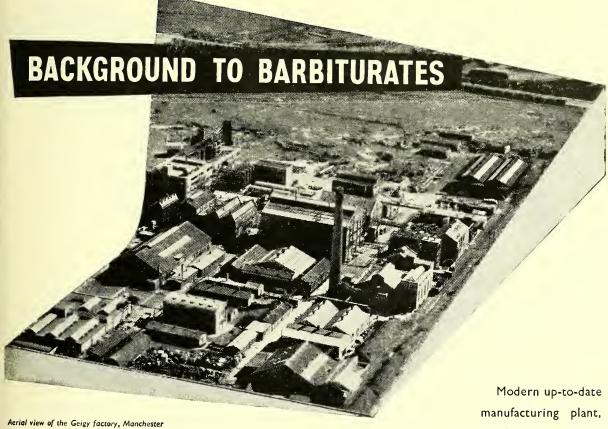
vials of 400,000, 1,200,000 and 4,000,000 units.

'DISTAQUAINE' SUSPENSION

vials of 10 ml. (300,000 units per ml.)

Manufactured by

THE DISTILLERS COMPANY (BIOCHEMICALS) LIMITED, SPEKE, LIVERPOOL



PHENOBARBITONE B.P. PHENOBARBITONE SODIUM B.P.

BARBITONE B.P.

BARBITONE SODIUM B.P.

BUTOBARBITONE B. P. C.

AMYLOBARBITONE B.P.C.

AMYLOBARBITONE SODIUM B.P.C.

CYCLOBARBITONE B.P.C.

CYCLOBARBITONE CALCIUM

HEXOBARBITONE B.P.

METHYLPHENOBARBITONE B.P.

QUINALBARBITONE SODIUM B.P.

constantly in operation, vigilant research laboratories admirably equipped ... that is the impressive, present-day background to the Geigy production unit. Barbiturates are produced at the Geigy factory in Manchester to exacting standards of quality, and in a steadily expanding range.



PHARMACEUTICAL LABORATORIES GEIGY

LTD

Rhodes,

Middleton,

MANCHESTER

FC. 15





Special Holiday Bonus Offer

Ferrania roll films have been on the British market for four years and are well established as films of exceedingly high quality.

Advertising of Ferrania films has been mainly in the photographic press, but, as you know, a considerable number of Ferrania advertisements are appearing in the National Press.

We now wish further to popularise Ferrania films with the "snapshotter" and propose to make you a special Bonus offer in order to make it worth your while to arrange special displays and push sales of Ferrania Ortho roll films.

Discounts of 30% plus 10% will be given on all orders of one gross and over received by us from retail chemists until August 31st.

This offer does not apply to Panchromatic films but to Ferrania Ortho films, F20, F520, F27, F16 and F516.

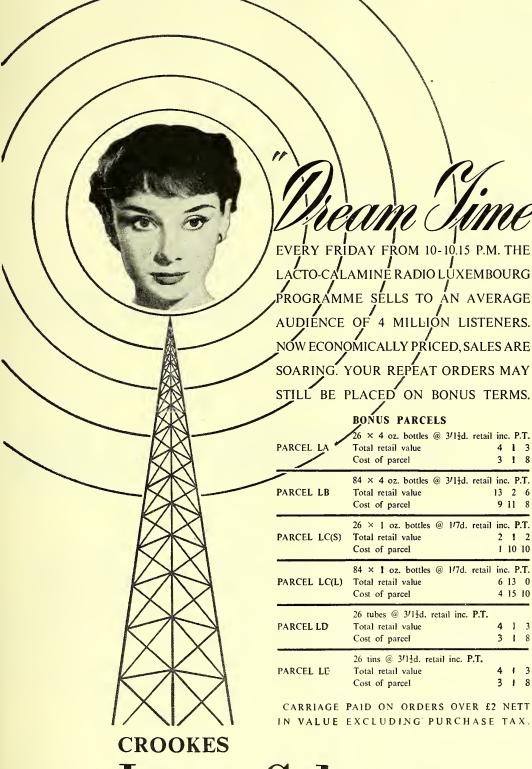
Ample quantities of display material are available and will be sent on request. A brand new multi-coloured showcard, "Ferrania Girl," will be enclosed with each batch of film.

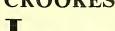
May we suggest you take advantage of this bonus offer by sending us your order now.

NEVILLE BROWN & COMPANY LTD.

77 NEWMAN STREET, LONDON, W.I.

Tel: LANgham 7161 (10 lines)









Display Now! ESõBAN De Luxe

for good summer sales

ESOBAN

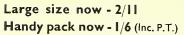
CALAMINE

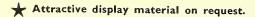
- A skin preparation of superb quality.
- Soothes all irritant skin conditions.
- Ideal for Sunburn, Napkin Rash, etc.

33½% discount + bonus 13 to the dozen.
(3 doz. orders either size).

AND

5% on £5 and 10% on £10 direct orders offered in return for 14-day counter and window display.





SOUTHON LABORATORIES LTD.
88 UPPER RICHMOND ROAD, LONDON, S.W.IS.

Finn Mac Coul the

FERRIS & COMPANY, LTD.

BRISTOL

MANUFACTURING AND WHOLESALE CHEMISTS

The House in the West for all Chemists' Supplies. Send us your orders for prompt and careful attention.

REGULAR ROAD DELIVERIES

in the West of England and S. Wales areas.

Telephone: BRISTOL 21381

Telegrams: FERRIS BRISTOL



Makers of Industrial Filterings and Absorbent Base Paper Enquiries and orders for "Postlip" Papers should be addressed to our Sales Representatives:- TECHNICAL PAPER SALES LTD. 9 BRIDEWELL PLACE, LONDON, E.C.4



Northern Ireland, loveliest in Autumn, is the place for end-of-season holidays. You'll appreciate the unspoilt beauty of the holiday resorts; the tranquillity and peace of the countryside; and there's always plenty to do. Send 6d. postage for illustrated guide to Tourist Information Centre (Dept. D6) 6, Royal Avenue, Belfast, or ask your local travel agent.

★ International Tourist Trophy Car Races on September 5th over the 7-mile Dundrod Circuit—the only course of its kind in the United Kingdom.

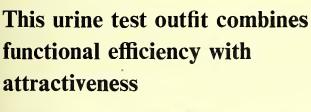


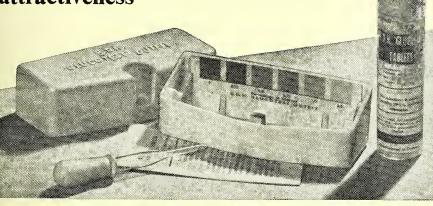
Northern Ireland gives a GREAT welcome

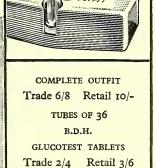
INDEX TO ADVERTISERS

| Addis, Ltd. | 24 |
|--|-----|
| Allen & Hanburys, Ltd | 39 |
| Arvin Electric, Ltd | 33 |
| Askit, Ltd. Leader Pa | age |
| Takiti, Esta | |
| Delen Debert & Con Ltd Lender De | |
| Barker, Robert, & Son, LtdLeader Pa | 41 |
| Beatson, Clark & Co., Ltd. | 27 |
| Beechams (Northern), Ltd. | 13 |
| Bell, John, Hills & Lucas, Ltd. | |
| Bowring, C. T., & Co. (Fish Oils), Ltd. | 18 |
| British Drug Houses, Ltd. | 5 |
| British Vacuum Flask Co., Ltd., The | 31 |
| Burrough, James, LtdLeader Pa | ige |
| Burroughs Wellcome & Co | 21 |
| | |
| | |
| Carnegie Quinine Works, LtdCover | iii |
| Cassells, Dr | 27 |
| Chemist and Druggist, Art of Dispensing, The | 38 |
| Chemist and Druggist Pharmaceutical Formulas | 40 |
| Chemist and Druggist, The Refresher Course | 34 |
| Christy, Thomas & Co., Ltd. | 42 |
| Church & Co., Ltd. | 42 |
| Ciba Laboratories, Ltd | 16 |
| Cole, E. K., Ltd. | 10 |
| County Paper Mills, The | 40 |
| Cox, Arthur H., & Co., Ltd. | 8 |
| Crookes Laboratories, Ltd., The | 3 |
| Cussons, Sons & Co., Ltd. Cover | iv |
| Cuticura Preparations | 29 |
| Cutteura Treparations | |

| Cuxson, Gerrard & Co., Ltd | 20 |
|--|-----------------------------|
| Dales Tablet Makers, Ltd., The Leader Palmas, Ltd. Daniel, Richard, & Son, Ltd. Distillers Co. (Biochemicals), Ltd., The Cover Duncan, T. V. | 10 13 |
| Edme, Ltd | 39 4 |
| Ferris & Co., Ltd. Fish Optical Co., Ltd. Foyles, W. & G., Ltd. Franks, Alfred, & Bartlett Co., Ltd. Fryer & Co. (Nelson), Ltd. Leader P. | 30 18 |
| G.B. Equipment, Ltd. Geigy Co., Ltd., The Gerhardt, C. F., Ltd. Gledhill, G. H., & Sons, Ltd. Goya, Ltd. | 35 1 18 42 28 |
| Halewood Chemicals, Ltd. Hall Forster & Co., Ltd. Hinders, Ltd. Howards of Ilford, Ltd. Hygienic Drinking Straws Co., Ltd. Leader Page 1 | 30 30 30 25 age |
| (continued overle | eaf) |







The socket in the

lid of the case holds the test-tube upright during test.

B.D.H. GLUCOTEST OUTFIT

CONVENIENT **COMPACT**

ATTRACTIVE

The B.D.H. 'Glucotest' Outfit and Tablets comply with the official specifications NO EXTERNAL HEAT for appliances and reagents for urine analysis which may be ordered on Form E.C.10. Their supply is approved whether ordered under the brand name or under their official titles—"Urine Sugar Analysis Sets" and "Diagnostic Solution— Tablets of Copper."

THE BRITISH DRUG HOUSES LTD. LONDON N.I

| INDEX (cont.) | Progress Shaving Brush Co., Ltd., The |
|---|--|
| Jackson, George & Sons. Ltd.42Johnson & Johnson (Gt. Britain), Ltd.7 | Rankin Bros. & SonsLeader PageReed, Kenneth & Co., Ltd.41Regna Cash Register Co.30 |
| Kearsley, C. & G., Ltd | Rozalex, Ltd. 40 |
| Lloyd-Hamol, Ltd. 44 Lloyd, H., & Co. 20 | Samuelson, P., & Co. 26 Searle, A., & Co. 34 Southon Laboratories, Ltd. 4 |
| Macdonald & Son, Ltd.16Manesty Machines, Ltd.8Martindale, William, Wholesale, Ltd.9 | Sponcel, Ltd. 15 Sumner, R., & Co., Ltd. 34 |
| Matthews, Stephen, & Co., Ltd. 32 Medico-Biological Laboratories, Ltd. 37 Merica, M., & Co., Ltd. 40 Mitchell, L. A., Ltd. 32 | Taylor, Edward, Ltd. 6 Tell Products, Ltd. Col. Supp. Tempo Laboratories, Ltd. 30 |
| Mitchell, L. A., Ltd. 32 Momand, Don. S., Ltd. Front Cover "Myers of Old Street" Col. Supp. | Thornton & Ross, Ltd. 36 Townsend, James, & Sons, Ltd. 36 Tunnel Glucose Refineries, Ltd. 36 |
| "Nervone" 31 Neville Brown & Co., Ltd. 2 Newton Chambers & Co., Ltd. 12 | Ulster Tourist Association, Ltd 4 |
| Northern Polytechnic 30 | Waide, Thos. & Sons. Ltd. 43 Wallis Laboratory, Ltd., The 22 |
| Olley, C., & Sons, Ltd. 32 Orridge & Co | Warrington Chemical & Drug Co., Ltd., The |
| Owbridge, W. T., Ltd. 29 | Webster, Isaac & Sons, Ltd. 41 Wilson & Mansfield, Ltd. 31 Wasif Lovis Ltd. 14 |
| Pond Extract Co., Ltd. 11 Potter & Clarke, Ltd. 17 | Woolf, Lewis, Ltd. 14 Woolley, James, Sons & Co., Ltd. 19 Wright, Layman & Umney, Ltd. 23 |
| | |



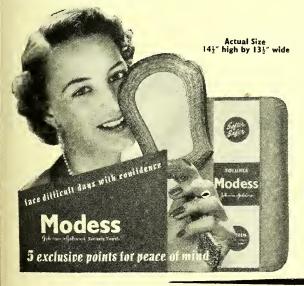
3 months' FREE supply of Modess for your shop!

4 SEPARATE CHANCES TO WIN IN Johnson Johnson's Modess selling competition

TAKE this great opportunity to win FREE a 3 months' supply of Modess, and boost your sales of Modess into the bargain.

Each month during the rest of this year the free 3 months' supply will be awarded to the shop whose sales of Modess exceeds the average for its type and size of outlet by the greatest percentage margin.

Your Modess counter assistant will be keen to help you win, because if you do, her prize will be a glamorous evening gown, specially made for her by a famous London fashion designer and a two days' luxury holiday in London, or if several assistants sell Modess in the winning shop, a generous cash prize will be divided between them.



As you know, Modess towels are far superior to any other because of their five special advantages. They sell easily and quickly, but to help you give sales that extra boost needed to win, we have designed two eye-taking full colour show-cards (below). The larger one is particularly attractive because it incorporates a beautifully decorated hand mirror & an actual packet of Modess. Stand them both in a really prominent position on your counter and watch sales bound up and up, putting you in the running for a prize.

Full details of the competition and the wonderful prizes in a broadsheet which has been sent to all retailers and wholesalers. Make sure that everyone in your shop sees it and make sure you have plenty of Modess in stock.

Johnson Johnson (GT. BRITAIN) LTD.

Personal Products Division, WREXHAM & LONDON



where quality comes first



and Tablets

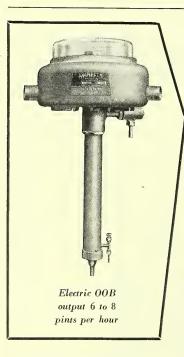
are synonymous

Other manufactures include:—
PILLS · OINTMENTS · CREAMS
CAPSULES · PASTILLES
SOLVELLAE · SUPPOSITORIES

Complete production of increasingly popular CHEMISTS' OWN BRAND lines

Research in the manufacture and coating of **TABLETS** and their application to pharmaceutical and allied professions, together with modern facilities for large-scale production enable the **COX ORGANISATION** to offer products of exceptional quality at attractive prices.

• ARTHUR H. COX & CO. Ltd., Brighton, 7, Sussex •



MANESTY

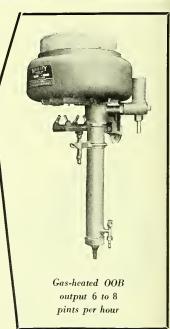
AUTOMATIC STILLS WITH THE NEW VITREOUS FINISH

The MANESTY Automatic Water Still. OOB gas, paraffin or electric operated model, is now available in the new vitreous finish.

Simply installed, MANESTY Stills ensure a constant supply of fresh, pure distilled water. No storage, handling or transport problems arise, and to save further floor space a wall bracket is provided with each model.

MANESTY Stills are available for outputs ranging from 2 pints to 50 gallons per hour at extremely low running costs.

For further details send for our fully illustrated leaflets TODAY.



MANESTY

DEPT. 5

Telephone: Hunts Cross 1972

MACHINES LTD.

SPEKE

LIVERPOOL 19

Telegrams: Manesty, Liverpool 19

M A N E S T Y
Machines and Stills
are now used in over
60 countries

TABLET MACHINES · COATING PANS · GRANULATORS · MIXERS · PUNCHES & DIES

Warning

An order was made in the HIGH COURT OF JUSTICE Chancery Division (Group A) on Tuesday, August 28th 1951, restraining Dr. Weil's Medical Products Limited, Bronchovydrin (1945) Limited, John Joseph Frawley and Mary Agnes Frawley from using the names of Dr. Weil or Bronchovydrin in connection with the manufacture, use, sale, or supply of any pharmaceutical or similar preparation and from infringing the Registered Trade Mark numbered 56467i

BRONCHOVYDRIN Asthma inhalant WEIL

Formerly made by the Pharmaca Dr. Weil, Amsterdam, Bronchovydrin is now also manufactured in England. All General Practitioners in the National Health Service will be informed of this development by letter in the near future. Full particulars of packings and prices gladly sent on application.

SOLE AGENTS FOR THE U.K.

WILLIAM MARTINDALE WHOLESALE LIMITED

14-16 BRUTON PLACE, NEW BOND STREET, LONDON, W.I

Telephone: MAYfair 7811



There's a genuine demand

for this new infant's bath

LIGHT to handle and, at the same time, completely unbreakable, the "Plastabath" is safer and much more convenient in use. Mothers are quick to realize these advantages and the fact that size and shape are just right. The material, too, is soft-surfaced, although tough and resistant to wear. Get in quickly with this new line it has a genuine market!



Available with or without stand, in pink, blue or ivory; moulded-in soap and sponge trays. BATH: 39/6d. retail With stand, as illustrated, 59/6d, retail

EKGO

PLASTABATH

LIGHT · SAFE · ATTRACTIVELY TRANSLUCENT

Trade enquiries invited; for terms and descriptive leaflet write to:

E.K. COLE LTD., SOUTHEND-ON-SEA, ESSEX (Members of the British Plastics Federation)



Perhaps it's the big advertising campaign. Perhaps it's on the recommendation of the 'lady next door.' But there's a definite swing in waterproof dressing sales ... to Dalmas. Sales figures prove that it pays the chemist to sell the better value in the 'blue box.'

WHAT IS 'OMNI-STRETCH'?

Most dressings stretch in only one direction. A few stretch two ways. Dalmas Waterproof Dressings stretch in all directions. THEY ARE FULLY FLEXIBLE. That's why they 'stay put' so much better.



YOUR GOODWILL

Dalmas Advertising directs Daimas Advertising directs the customer to you. Do your part by displaying the many attractive Dalmas Sales-Aids; Counter Cards, Displays, Sell-Out boxes, etc.

YOU CAN KEEP

ORIGINAL & BEST



DRESSINGS FIRST-AID

MADE BY DALMAS LTD., LEICESTER & LONDON. EST. 1823.



Women will love this attractive cream and gold mirror case, shown here—actual size. It's elegant! It's handy!

In fact, with its own crystal-clear mirror and satin-backed puff, it's handier than any other compact today. It carries "Angel Face" — Pond's foundation and powder in one which can't spill!

Seven glorious true-complexion shades of "Angel Face" are available

in the Mirror Case. Your customers can choose from:

BLONDE "ANGEL"

IVORY "ANGEL"

PINK "ANGEL"

BLUSHING "ANGEL"

Retail prices 8 6. Refill, complete with new puff, 4/-. "Angel Face" still comes, of course, in its original blue and gold container, retail price 3/2.

POND'S EXTRACT COMPANY LIMITED, PERIVALE, GREENFORD, MIDDLESEX



127/- per gross wholesale

New retail price (FROM SEPTEMBER 1st) 1/1 ½d

THE MOST POPULAR AND MOST HEAVILY ADVERTISED TOILET ROLL
IN THE COUNTRY

NEWTON CHAMBERS & CO. LTD. THORNCLIFFE, Near SHEFFIELD



HEAD OFFICE & WORKS: MANSFIELD ROAD, DERBY. Tel: 48266 (4 lines) BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)



NON-GREASY BRONTAN tans fast and sells fast, and each tube will show YOU a healthy profit. Now's the time to order for your share of this brisk business which will be continual throughout the summer.

Trade Price 10/3 per dozen (P. Tax $7/8\frac{1}{4}$)

Retail 2/- per tube (inc. Tax)

Bonus for display, 13 to the dozen on parcels of not less than 3 dozen

JOHN BELL, HILLS & LUCAS LTD., OXFORD WORKS, WORSLEY BRIDGE RD., S.E.26

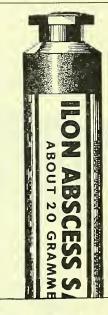


ILON Products now available.

ILON ABSCESS SALVE has been found an infallible remedy for the treatment and elimination of Boils, Carbuncles and Abscesses. Rapid and painless in its action—four applications being normally sufficient.

'ILODERM' - manufactured by the same Company is excellent in the treatment of Burns, Dermatitis and most other Skin Ailments.

■ There is no penicillin or other Anti-Biotic in any of the ILON products.

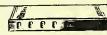






CONTAINS ABOUT GRAMMES

Concessionaire: N, ESQ., 181 BLAIRBETH ROAD, BURNSIDE, LANARKSHIRE, SCOTLAND ILON CHEMISCHE INDUSTRIE, FREIBURGH, GERMANY V. DUNCAN,





This sponge will attract lots of NEW business . . . will pave the way to bigger sales of the larger sizes. PRICE IS RIGHT. PACK IS EYE CATCHING.

SPONGE IS SOFT WHEN BOUGHT. COLOURS ARE BRIGHT . . . made from the famous 'SPONTEX' cellulose sponge material that can be boiled clean whenever desired. From your wholesaler, 15/- doz., less $33\frac{1}{3}\%$ plus p.t. @ $2\frac{1}{2}$ d. per sponge.

** MORE "SPONTEX" SPONGES SOLD EVERY DAY...
IT'S INCREASINGLY TRUE, "SPONTEX" MEANS
BUSINESS—MORE SPONGE BUSINESS FOR yow

BRITISH MADE BY SPONCEL LTD., BROMLEY, KENT.



QUALITY AND

(Certor) SURGICAL

ELASTIC HOSIERY

will not only fulfil the prescription —it will satisfy the user. Available in seamless fine thread and Lastex yarn two-way stretch.

MACDONALD & SON LTD. · HOPE MILLS · POLLARD STREET · MANCHESTER,

PRIVINE

for RAPID RELIEF OF CONGESTION AND INFLAMMATION in

RHINITIS SINUSITIS

CONJUNCTIVITIS

Plastic Pocket Nebulisers for convenient and effective nasal medication Dropper Bottles for use in the nose and eye

1:2000 solution for general use 1:1000 solution for severe cases Also available in bottles of 4 and 20 fl. oz.

'Privine' is a registered trade mark Reg. user

LABORATORIES LIMITED . HORSHAM

Telephone: Horsham 1234

Telegrams: Cibalabs. Horsham

POTTER'S LAUNCH NEW LINE-

rystallisea CATARRH

PASTILLES

the pastilles
Chemists said
were wanted . .
with a

sugary taste

Same fighting formula and same price as its companion product with which it will get

National-scale

Big spaces in the National and Provincial press and top-circulation magazines have been booked to back Potter's Catarrh Pastilles and Potter's new Crystallised Pastilles together. First announcement appears in the Daily Mail's largest advertising space on Thursday, Sept. 17th, followed by powerful publicity throughout the cough/cold pastille 'season'.

STOCK UP NOW! Have Potter's Catarrh Pastilles ready for regular users. Sell Crystallised Pastilles to those who prefer their 'sugary' taste. Recommend them for children.

Potter & Clarke Ltd · River Road · Barking · Essex

* Order
THROUGH
WHOLESALERS
ONLY
please!

remedy for COUGHS, COLDS & HAY FEVER

CRYSTALLISED PASTILLES

are READY NOW in this attractive 1 doz. display box. Retail price 1/8. Trade price 11/- a doz. (plus Purchase Tax, 2/9 doz.)

Advertising

POTTER'S CATARRH PASTILLES

displayed in the striking 1 doz. container Retail price 1/8. Trade price 11/- a doz. (plus Purchase Tax, 2/9 a doz.)

* Unless you specify "Crystallised Pastilles", the usual Potter's Catarrh Pastilles will be supplied





WHOLESALE ENQUIRIES TO:- Alfred Franks & Bartlett Co. Ltd., 226/8, Grays Inn Rd., London, W.C.I · TERminus: 9865-8



PROFIT

Purchase Tax. Retail Price 3/9 each.

bv

DETHMOR-WARFARIN

The new and certain rodent killer

DETHMOR-WARFARIN is bound to be your biggest-selling rodent killer.

IT IS UTTERLY DIFFERENT

Originated by a famous American University Foundation, it is eaten by rats and mice without suspicion, bringing certain death, yet it is harmless to domestic animals, poultry and human beings. Millions of rats have been killed by DETHMOR-WARFARIN in the U.S.A. and re-infestation prevented, whilst even in the short time it has been available in this country evidence has already accumulated from municipal authorities, farmers, etc., testifying to its extreme efficiency.



AND BRINGS YOU 3310/0 PROFIT

In tins: ½ lb. 4/-, 1 lb. 13/6, 7 lbs. 73/6, from your wholesaler or direct from

C. F. GERHARDT LTD., 5, Fenchurch St., London, E.C.3





· ENERGISING · PALATABLE SUSTAINING

An energising food drink containing approximately 25% Liquid Glucose. For Acidosis, Impaired Appetite, Morning Sickness, Nausea, Exhaustion and Shock. Also for all febrile conditions where liquid is required and solid food refused.

SUITABLE FOR ADULTS AND CHILDREN

DOSE - ONE WINEGLASSFUL AS REQUIRED

MAXIMUM RETAIL PRICE 2/6

Plus a deposit of 3d. which will be refunded when the bottle complete with stopper is returned.

TRADE TERMS

One Dozen lots 22/- per dozen Three Dozen lots 21/6 per dozen Six Dozen lots 21/- per dozen Plus bottles 3/- per dozen

Six Dozen and over carriage paid



JAMES WOOLLEY SONS & CO. LTD., VICTORIA BRIDGE, MANCHESTER, 3

Incorporating J. C. Arnfield & Sons Ltd., Stockport

Over 70 years ago

MORE THAN SEVENTY YEARS AGO, Howard Lloyd and Company Limited opened their Leicester factory and began work, filling their first orders for medical and pharmaceutical preparations.

Since then, literally hundreds of thousands of orders from doctors, chemists and hospitals all over the world have been speedily and successfully attended to—orders covering almost every kind of pill, tablet, capsule and other pharmaceutical preparations.

Today, the Howard Lloyd Company can call on the best of two worlds; long experience and modern methods combine to provide, in their tablets, their pills and capsules, a service that doctors and chemists can confidently rely upon.

If you require preparations manufactured to your own formulae, or to official formulae, why not contact the Howard Lloyd Company and talk it over with them. You'll find their chemists most helpful and well able to cope with most of the problems that might confront you.

HOWARD LLOYD AND COMPANY LIMITED

LONDON OFFICE:

11 WATERLOO PLACE, LONDON, S.W.1

AND AT LEICESTER.

Makers of Fine Pharmaceuticals to the Medical Profession since 1880.



People nowadays are fully aware of the need for First Aid, and the dangers of infection through inattention. They need First Aid Outfits for the home, holidays, motoring, cycling, sports, in fact there is hardly a situation, occasion or organisation where First Aid is not required. A prominent display of First Aid Outfits will constantly remind your customers of this need and bring you good business.

The Compactoid range is most attractively presented in strong enamelled cream, red and white boxes, and the contents are backed by over fifty years' specialised experience of First Aid requirements and manufacture.

PRICES

A88 A77 A76 A75 A70
TRADE PRICE (Dozen) 23/6 42/- 69/- 90/- 162/-

RETAIL (Each) ... 2/6 5/- 7/9 10/- 18/-

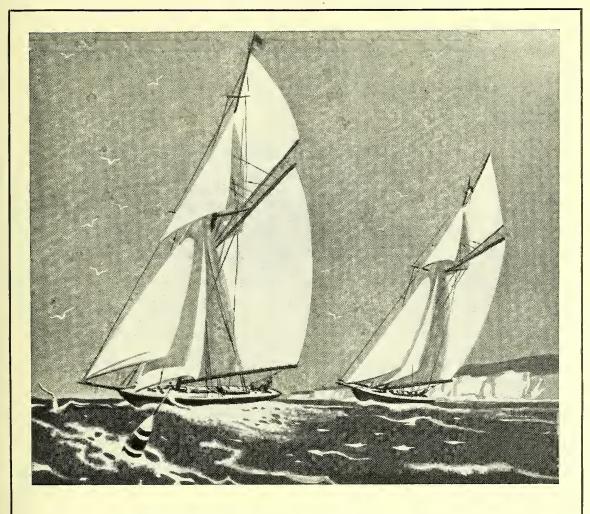
A PRODUCT OF

Cuxson Gerrard

E Co.Ltd.

OLDBURY

BIRMINGHAM



Free to breathe again

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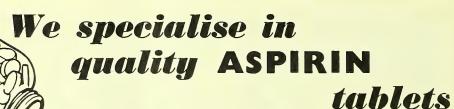
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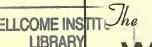
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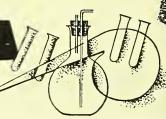
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The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 160

August 15, 1953

No. 3834

CONTENTS

| Advice on N.H.S. Costs | | 159 |
|-----------------------------------|----|-----|
| A Mixing-plant Installation | | 160 |
| Any Business Questions? | | 169 |
| Building up a Veterinary Business | | 167 |
| Chemical Works' Odours | | 159 |
| Dental Regulations Amended | | 160 |
| Drug Jars as a Pharmacist's Hob | by | 170 |
| Examination Results | | 157 |
| Leading Articles:— | | |
| The Old Folks Stay Put | | 165 |
| Scientific Initiative in Industry | | 165 |
| Machinery and Plant Notes | | 161 |
| Medical Abstracts | | 173 |
| Onward from Galen | | 166 |
| Penicillin, etc., Manufacture | | 172 |
| Pharmacy in America | | 159 |
| Topical Reflections | | 155 |
| 1 opinal and | | |

| Business Changes | 158 | New Products 163 |
|--------------------|-----|--------------------------|
| | 176 | P.A.T.A. Supplement |
| Correspondence | 165 | Personalities 159 |
| Deaths | | Photographic Notes 163 |
| Information Wanted | 164 | Price Changes Supplement |
| Inquests | 157 | Print and Publicity 176 |
| Irish News | 156 | Scottish News 156 |
| Legal Reports | 158 | Trade Marks 176 |
| Local Officers | 157 | Trade Notes 162 |
| Marriages | 158 | Trade Report 174 |
| New Companies | 158 | Wills 176 |

INDEX TO ADVERTISERS, Pp. 5 & 6.

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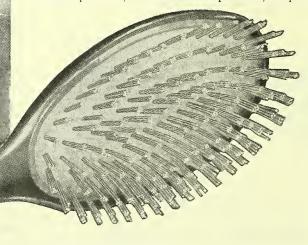


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Volume 160

AUGUST 15, 1953

No. 3834

Therapeutic Substances

NEW RULES ON ISONIAZID AND ANTIBIOTICS

NEW regulations affecting isoniazid, aureomycin, and antibiotics for use in agriculture, were made on July 31; they operate from July 31, September 1, and September 1, respectively.

The Therapeutic Substances (Control of Isoniazid) Regulations, 1953 (S.I. 1953, No. 1173) applies the Penicillin Act, 1947, to isoniazid and its salts, its derivatives and their salts. The Therapeutic Substances Amendment Regulations, 1953 (S.I., 1953, No. 1172) add to the Schedule to the Therapeutic Substances Act, 1925 the following when intended for injection: aureomycin and its preparations. The regula-tions define the drug and specify quality and tests. The new regulations amend the Therapeutic Substances Regulations, 1952, as they apply to sterility testing, to remove doubt about their interpretation. The Therapeutic Substances (Supply of Antibiotics for Agri-(S.I., 1953, No. 1174) made under section 2 of the Therapeutic Substances (Prevention of Misuse) Act, 1953, enable penicillin and aureomycin (in the form of a mixture with an approved diluent of the residue from the extraction of aurcomycin hydrochloride; or any other approved dilute preparation of aureomycin) to be used in the food of pigs and poultry, subject to certain The regulations provide for the antibiotics to be incorporated in pig and poultry food, either as a supplement to be added to existing food or ready with food by the food or ready mixed with food by the pig and poultry food manufacturers. Maximum concentration of antibiotic in the supplements is specified as one part of aureomycin hydrochloride or procaine benzyl penicillin in 100 parts of supplement. The composition of the "diluent" requires Ministerial approval. The container of the supplement must be such as will preserve the potency of the antibiotic content until the expiry date given on the label under (d) below. For supplements the Regulations require the following information to be given on the labels of the containers in such manner as the appropriate agriculture Minister may require:

- (a) the name "aureomycin supplement" or "penicillin supplement";
 - (b) the nature of the diluent;
- (c) the weight of the contents, the number of units of aureomycin or penicillin contained, and the quantity of those contained, in terms of the equivalent of aureomycin hydrochloride or procaine benzylpenicillin;

- (d) the date up to which the contents may be expected to contain the amount of aureomycin or penicillin specified;
- specified;

 (e) such particulars, if any, with respect to the storage and use of the supplement as the appropriate Minister may in any particular case require.

The Regulations, which apply to England, Wales, Scotland and Northern Ireland, also empower the appropriate Minister to require additional information to be given about the storage and use of supplement.

The maximum antibiotic content of feeding stuffs must be the equivalent of one part of aureomycin hydrochloride or procaine benzylpenicillin in 10,000 parts of the feeding stuff. A container of feeding stuffs with antibiotics must have a label containing such particulars in such manner as the appropriate Minister may require about:

(a) the number of units of aureomycin or penicillin added per ton of the feeding stuff, and the quantity so added, in terms of the equivalent of aureomycin hydrochloride or procaine benzylpenicillin;

(b) the storage and use of the feeding stuff.

Copies of each of the Statutory Instruments mentioned may be obtained from H.M. Stationery Office, Kingsway, London, W.C.2, price twopence each.

MINISTRY FUSION Transference of functions

UNDER an Order in Council (S.I., 1953, No. 1198) made on August 1 and coming into operation on August 31, provision is made for the amalgamation of the Ministry of Pensions and the Ministry of National Insurance under a Minister to be known as the Minister of Pensions and National Insurance. The functions of the Ministry of Pensions, so far as they relate to medical and surgical treatment in England, Wales, the Channel Islands, the Isle of Man and the Republic of Ireland, are transferred to the Ministry of Health and in Scotland to the Secretary of State.

ANIMAL OPERATIONS Freer choice of anaesthetics

THE Protection of Animals (Amendment) Bill recently published provides for amending the Animals (Anaesthetics) Act, 1919, so as to provide that henceforward all surgical operations upon animals involving pain (with a few specific minor exceptions) shall be carried out under the influence of anæsthesia, but that it shall be left to the veterinary surgeon to decide what specific agent he will use, and how it shall be administered.

DRUMMOND MEMORIAL £14,000 collected

TO date nearly £14,000 has been raised for the Drummond Research Fellowship in nutrition (C. & D., July 25, p. 74). The French Ministry of the Interior has authorised a monument on the site of the murder of Sir Jack Drummond and a local appeal has been made for funds.



WORKS VISIT: Members of the Sheffield Pharmacy Club at the factory of Thomas Kerfoot & Co., Ltd., Vale of Bardsley, Lancs (see p. 156).

PEST RESEARCH **Progress during 1952**

THE report for 1952 recently published of the Pest Infestation Research Board of the Department of Scientific and Industrial Research (H.M. Stationery Office, 2s.), reviews the work done during the year at the Pest Infestation Laboratory, Slough, and shows that investigations were made into the history investigation himself into the biology, insecticide biochemistry and other aspects of pest infestation. A new method for assessing the potency of pyrethrins compared with a standard was elaborated during the year, and makes use of the observation that flour beetles losc weight when treated with pyrethrins. Weighing a batch of beetles before and after exposure was found to give an accurate measure of the pyrethrin under test. The method will save time and the tedious work of examining and classifying each insect in a batch has had to be done hitherto. It is possible that the method can be applied to other insecticides.

For a cost of about £100 a borough council in London was able to prevent an estimated emergence of 108,000 blowflies per day from a railway siding during the appropriate season in 1952. That expenditure was made on DDT powder, which was applied twice a week on the advice of the Laboratory. An investigation into the travelling habits of blowflies in towns, using blowflies that had been fed on a radioactive phosphorus salt, showed that They were found in shops, canteens, factories and hospitals, and all were carrying food-poisoning organisms.

ECONOMIC AID Expenditure outlined

DETAILS of the allocation of counterpart funds derived from United States Economic Aid under the Mutual Security Act, 1952, have been published as a White Paper (cmd. 8918, H.M. Stationery Office, price fourpence). During 1953-56 £457,000 is to be spent on advisory service; £500,000 on research, including factors affecting productivity and the adoption of inventions; and £75,000 on research in production economies, including the in-novation and development of new



AT INTERNATIONAL CONGRESS OF CHEMISTRY: Professor Thiselius, Sweden; Sir Cyril Hinshelwood, Britain, and the American Nobel Prize winner Harold Urey, get together to discuss the agendas for the thirteenth International Congress of Chemistry, Stockholm, Sweden, August 2.

ideas. Allocations under the heading Advisory Service include the following:

£125,000 to the Department of Scientific and Industrial Research for assistance to research associations (in conjunction with trade associations where suitable) for development of advisory

services; £35,000 to the British Institute of Management for research and the pre-paration and provision of information on management subjects of importance to productivity, and for extension of the Institute's information and research de-

firstitute's information and research departments, etc.;

£44,000 to the British Productivity
Council for the development of a
"circuit" scheme for the exchange of
team visits between firms, etc.;

£5,000 to the National Union of
Manufacturers for the initiation of a
consultancy service to keep its members
in touch with technical developments.

in touch with technical developments.

FLOWER BOOKS A British Council exhibition

FLOWER books from the library of the Society of Herbatists provide the subject of a current exhibition by the Arts Council at its headquarters in St. James' Square, London, S.W.1. The books on display have been chosen for their artistic merit, but as many of the authors were themselves medical men, the exhibition has a double appeal. It traces the development of plant illustration from the woodcuts of mediæval days to lithography as used by John Nash in 1948. Among the herbals exhibited is an exact 18th-century copy of a 12th-century Dioscorides manuscript, showing illustrations, not drawn from nature and probably added to the original, First-century, material by mediæval copyists, translators and other workers. engraved plates made in 1613 by Basilius Besler, a Nürnberg pharmacist, who was in charge of a herb garden of Prince Bishop of Eickstatt; and a partfelia of this land a l portfolio of stipple-engravings by Gerard van Spaendonck, 1800 (perhaps the best illustrations of their kind ever made) containing one of Digitalis purpurea, are also on show. Admission to the exhibition is free.

MR. BEVAN'S VIEWS Ex-Minister writes on pharmacy

IN an article "Hands off the Nation's Health Service," published in New Dawn, the journal of the Union of Shop, Distributive and Allied Workers, Mr. Aneurin Bevan, M.P. (Minister of Health, 1945-50) wrote "The Labour Government encouraged the intelligent use of our resources. . . . Services such as pharmacy, maintenance, supplies and laundry were reorganised on a more economical group basis. . . . Large sums were saved by the bulk purchase of drugs and appliances. . . . While I was at the Ministry of Health I took action on this question [excessive prices] because of the great differences in the cost of proprietary medicines and those on the official formulary. . . . In this sphere, at any rate, no charge of abuse can be fairly levelled against the patient, and the Minister has within his power administrative measures which can effectively tackle the problem."

CHARGING DOCTORS Excess prescribing and levy

THE National Health Service (Service Committees and Tribunal) Amendment Regulations made by the Minister of Health on July 30 and operative from August 1 provide that in a case of alleged excessive prescribing the Local Medical Committee shall decide what sum is, in their opinion, a reasonable estimate of the excess cost instead of the amount of the excess cost. The Regulations also enable the case of a doctor to be referred formally to the Local Medical Committee if the amounts of the shilling charges to patients collected and paid over by him in respect of the supply of medicines and appliances appeared, prima facie, to be inadequate, in view of the number of patients on his dispensing list. The Regulations also deal with certain dental service matters. The S.I. number is 1953 No. 1175.

POLIOMYELITIS Insignificant rise

IN the week ended August 1 the number of new cases of poliomyelitis re-ported in England and Wales was 270 (266 the previous week). Of those 103 did not develop paralysis. A Ministry of Health spokesman states that it is a question of waiting to see whether the weekly figures remain at that level, as they did in the corresponding period of 1952, when poliomyelitis was much less prevalent than in the epidemic years of 1947 and 1950.

Three further poliomyelitis cases have been admitted to a Londonderry hospital, bringing the total there to forty-four, thirty-six of which are confirmed cases. There are twelve confirmed cases in co. Donegal.

SCIENCE IN INDUSTRY Need of development stressed

THE sixth annual report of the Advisory Council on Scientific Policy (to which were appointed during the year 1952-53 reviewed, Sir Cyril Hinshelwood, professor of chemistry, Oxford University), and Sir Harry Jephcott (chairman, Glaxo Laboratories, Ltd.), has just been published. It stresses that the number of trained scientists and technologists in industry should be greatly increased, and recommends the extension of the use of research and development contracts. Copies of the report are obtainable from H.M. Stationery Office price sixpence.

ROYAL SOCIETY Research appointments

AMONG recipients of research appointments made by the council of the Royal Society recently are the following Fullerton research fellows: Mr. J. E. Falk, B.Sc., M.Sc., Ph. D. (University College Hospital medical school) (to carry out research on the biochemical mechanisms involved in biochemical mechanisms involved in the production of porphyrins and hæmoglobin by animal tissues) and Mrs. P. M. Holton, B.A., D.Phil., M.A. (physiological laboratory, Cambridge University) (to carry out research on chemical transmission in the nervous system).

NEWS IN BRIEF

Travellers' Schools.—Speech day at the Royal Commercial Travellers' Schools, Hatch End, Middlesex, was held on July 25.

D.D. Authorities Withdrawn. — The Home Secretary has withdrawn from Thomas Bertram Whitchead, M.B., Ch.B., whose registered address is 144 Grange Avenue, Oldham, authorities granted him under the Dangerous Drugs Regulations, 1953, to possess and supply Dangerous Drugs.

Chemistry Research Grants. — The Chemical Society announces that applications for grants for research in any branch of chemistry should be submitted (on a special form) to the secretary of the Society, Burlington House, Piccadilly, London, W.1, by November 14.

Insurance Reciprocity with Italy.

—Under an Order in Council (S.I., 1953, No. 884) that has been in operation since June 4) provisions are made for nationals of the United Kingdom or of Italy, when resident in Italy or the United Kingdom, to receive National Insurance or Industrial Injuries benefits under the scheme operative in the country of residence.

179 Apprentices Visit Leeds.—One hundred and seventy-nine apprentices of Timothy Whites & Taylors, Ltd., paid a two-day visit to Leeds recently, on the occasion of the company's annual scholarship examination. They were accommodated in a college hall of residence, and after the examination visited the company's works. The functions ended with a buffet supper.

Chemotherapy in T-B Course, — A post-graduate course for doctors, on chemotherapy in the treatment of tuberculosis, is being held at the Anatomy School, Cambridge, from September 1 to 4. The course has been arranged by the Tuberculosis Educational Institute, Tavistock House North, Tavistock Square, London, W.C.1, from the secretary of which details are available.

Poliomyelitis Fund Appeal.—The National Fund for Poliomyelitis Research is seeking the widest support for the appeal for £250,000 launched in March (see C. & D., March 14, p. 251) and is anxious that civic leaders and others shall set up committees to organise local campaigns. Anyone wishing to help in local campaigns or to make a donation should write to the secretary, National Fund for Poliomyelitis Research, 41 Spenser Street, London, S.W.I.

SPORT

Golf.—Manchester Chemists' Golfing Society ladies' day at Mere Country and Golf club recently. James Woolley, Sons & Co., Ltd., acted as hosts for the day. Results of competition for Woolley trophy: 1, Dr. Doherty 70; 2, H, Park 74; 3, K. C. Batty 75 (he was also awarded the second prize). The leading players in the ladies' putting competition were Mrs, C. Finney, Mrs, H, Brindle and (consolation prize) Mrs. McIntosh. After dinner Mr. J. A. Collins (vice-president) proposed and Mr. R. Ogden (captain) seconded a vote of thanks to Messrs, James Woolley, Sons & Co., Ltd., for their hospitality, Mrs. S. Woolley presented the prizes to the winners.

TOPICAL REFLECTIONS

By Xrayser

Pharmaceutical Advisory Committee's Views

Statistics can, we know, be variously interpreted. It is therefore not surprising that the Council of the Pharmaceutical Society holds one view of the prospective situation of numbers of qualified people and the Standing Pharmaceutical Advisory Committee of the Central Health Services Council holds another view (p. 129). Without attempting to choose between these interpretations, I may point out that efforts are being made to increase the number of pharmacists employed in hospitals, and that that fact is important in any estimate of the situation. To believe that there is no hope of adding substantially to the pharmaceutical staffs of our hospitals would be a defeatist attitude. On the other matter discussed by a subcommittee which included representatives of the Pharmaceutical Advisory Committee you have given a judicious comment (p. 141). Prevention of accidents in administering injections in hospitals is not a simple problem; but everything possible should be done to obviate mishaps of this class. It is usually very difficult to neutralise harm done by mistake in the operating theatre.

Poison Bottles

I confess that I have no knowledge of the case of accidental poisoning referred to in your quotation from the Lancet (p. 142). The earliest compulsory use of poison bottles that I can trace at the moment appeared in a supplement to the Dublin Pharmacopæia in 1856. It enjoined that "angular bottles or vessels, and none others, be employed in the dispensing of all medicines intended for external use." Other provisions in the order were that medicines for internal use were to be dispensed in round bottles or vessels; that in shops and warehouses certain scheduled articles were to be kept in angular bottles or vessels and to be similarly sent out; that articles not so scheduled were to be stocked and delivered in round bottles or vessels; and that unofficial medicines with dangerous qualities should be stocked and delivered in angular bottles or vessels. In Bell and Redwood's Historical Sketch (p. 249), mention is made of a meeting of pharmacists at Bloomsbury Square, at which meeting "all the speakers concurred in disapproving of the scheme, which was represented as visionary and impracticable." In 1899 the Pharmaceutical Society of Great Britain issued three regulations for the storage, dispensing and selling of poisons; the third of these prescribed, for poisonous liquids for external use, bottles distinguishable by touch.

Roger Bacon

An erudite study of the work of Roger Bacon, by Dr. Stewart C. Easton of New York, has lately been published. Under the title "Roger Bacon and his Search for a Universal Science," the author builds up from the few available facts a conjectural biography of this English pioneer in scientific study. The year 1214 has been accepted as that of his birth, following a calculation put forward in 1861: his death is assigned to 1292. Though it is fairly clear that his activities were divided between Oxford and Paris, actual dates are uncertain. Dr. Easton mentions Bacon's interest in medicine; some drugs, not obtainable in England, were to be procured from Montpellier. I have not discovered in this book a reference to the passage in the "Epistola de Secretis Operibus Artis et Naturæ . . . ' ingeniously interpreted by Lieutenant-Colonel H. W. L. Hime as containing in an anagram a recipe for gunpowder. It appears that Bacon was frequently in trouble with his ecclesiastical superiors: this fact may account for the unsatisfactory condition of the manuscripts attributed to him. The main preoccupation of his last years is characterised as a search for a "universal" science, one that would synthesise all existing knowledge. But, the author comments, "already it was impossible in Bacon's day for one man to understand all fields, and Bacon himself ultimately saw this." His great contribution to European thought was the contention that theories should be tested by experiments.

LOCAL NEWS

Sheffield Pharmacy Club

MEMBERS of the Sheffield Pharmacy Club visited the factory of Thos. Kerfoot & Co., Ltd., Vale of Bardsley, Ashton-under-Lync, Ashton-under-Lync, recently. After a tour of the works the visitors were entertained to tea by the company. The Club held an evening coach tour to the Well-Dressing at Hope, Derbys, and the Lady Bower, Derwent and How-den reservoirs of the Derwent Valley Water Board. A treasure hunt was organised on July 6 and thirty-four members turned out and followed a circuitous trail in North East Derbyshire and North Nottinghamshire. A visit was made to the headquarters of the Lancashire and Derbyshire gliding club at Great Hucklow on July 20 and members were shown the various types of gliders and methods of launching in use there. The evening was rounded off with refreshments at Bradwell.

Retirement Presentations

TWO employees of John Richardson & Co. (Leicester), Ltd., wholesale chemists, Leicester, received recently gifts from the company in appreciation of their long service. They were Mr. E. Potterton (a dispatch department worker with forty-six years' service), who received a clock, and Mr. F. Coulson (a storekeeper with forty-five years' service) who was given a barometer. Both men retired that day on pension and received gifts of a cheque. The presentations were made by the chairman of the company (Mr. John Richardson).

Penalties for Carelessness

AT a meeting of the Hertfordshire Executive Council on June 17, two cases of "carelessness" and three of "gross carelessness" in dispensing were reported. On the recommendation of the Pharmaceutical Service Committee, the Council requested the Minister of Health to withhold 63s. each from the three worst cases. The other two contractors concerned were cautioned.

Romford Outing

A PARTY of members of the Romford Branch of the Pharmaceutical Society and friends travelled by coach to visit the Horsham works of Ciba Laboratories, Ltd., on July 15. The party was shown tablet making; aseptic filling; the handling of antihistaminies; automatic tablet counting and packaging. After tea at the factory the return journey was made by a different route.

Bulk Buying in Hospitals

"BY bulk buying through the group pharmacist we have been able to reduce the total expenditure on drugs and dressings without reducing the quantity or the quality," said Sir Geoffrey Lowles (chairman of the Woking and Chertsey Group Hospital Management Committee) at the first public annual meeting of the group recently.

Leeds Fund for President

THE committee of the Leeds Branch of the Pharmaceutical Society has

started a fund to enable the Branch to make a presentation to the president of the Society (Mr. T. Heseltine) who is a Branch member. Contributions should be sent to the Branch chairman (Mr. F. J. Carr), 88 Stoney Rock Lane, Leeds, 9.

"Abolish-the-Levy" Resolution

ROTHERHAM Executive Council decided at its monthly meeting on July 15 to submit to the annual meeting of the Association of Executive Councils a resolution calling for the abolition of the shilling charge for National Health Service prescriptions.

SCOTTISH NEWS

Health Centre Hours

was intimated at a meeting of Edinburgh Executive Council on July 23 that Mr. Henry G. Hynd, M.P.S., formerly pharmacist at the Central Dispensary of the Western General Hospital, Edinburgh, had been appointed pharmacist at the Sighthill Health Centre, Edinburgh, as from July 20. Following that appointment the Department of Health for Scotland, in a letter to the Council, stated that they had received representations from the committee of management of the Sighthill centre that if the centre was to be of value to the patients attending the doctor's evening consulting sessions, the pharmacy should remain open between 6 and 9 p.m. The Department were prepared to accept the committee's views and suggested that an arrangement of the kind might be made on an experimental basis to determine the use made of the facility. It was pointed out at the Council meeting that the Department had no standing in the matter, which was one to be settled by the Executive Council and the pharmacists. The Council replied to the Department in the following terms:-

"That the Council view with considerable doubt the proposal for the evening hours. It has yet to be shown that there is sufficient work to justify the employment of a second pharmacist. If there is not sufficient work to justify the employment of a second pharmacist, then it would appear impracticable to include the proposed hours without extending the agreed total hours of thirty-nine per week. It would also be reasonable for private chemists to regard such extended evening hours as an unfair inducement to deal with the pharmacist at the Health Centre."

Dispensing on Half-holidays

A CHEMIST in Perth who closed on Saturday afternoons found that he was losing much trade and now closes on Wednesday afternoons, it was stated at a meeting of Perth and Kinross Executive Council on July 29. Before the meeting was a suggestion by Dr. R. S. Paton that at least one chemist in the centre of the town should stay open on Wednesday, which is Perth's halfday. When it was explained that urgent medicine could be obtained on Wednesdays by calling on a chemist at his home, Dr. Paton said that the chemist might not be at home. Doctors had frequent urgent cases requiring medicines on Wednesdays, he said. Mr. George D. Fraser (clerk to the

Council) said that at the moment the council had before the Department of Health for Scotland a recommendation that four chemists in Perth should open their shops for one-and-a-half hours on Sundays, and the Department had questioned the length of the Sunday opening and the number of chemists involved. "They are arguing that it will cost too much," he said. The chemists had to be paid so much an hour for opening on Sundays for the convenience of the public.

IRISH NEWS

Cork Chemists' Outing

THE Cork Guild of Pharmacy held an outing to Killarney on July 5 and were met by pharmacists from co. Kerry. After visiting the lakes the party sat down to a dinner over which Mr. Thomas Lyons (chairman) presided. Proposing "The Guild of Pharmacy," Mr. C. D. O'Shea, Cork (a member of the Council of the Pharmacy. maceutical Society of Ireland) spoke of the progress and achievements of the Cork branch since it was formed some ten years ago. It was a great pleasure, he said, to meet so many of their brother chemists from "the Kingdom of Kerry," and he hoped on a future occasion they would have a similar function in Cork, when the hosts of that night would be the guests of the Cork chemists. Mr. Sean O'Donoghue, Ph.C., Tralee, replied on behalf of the Kerry chemists. Mr. Bill Glavin (Irish Pharmaceuticals, Ltd.) spoke on behalf of the medical representatives. The attendance included sentatives. The attendance included Dr. Frank Bove (an executive from the staff of Sandoz Laboratories, Basle, Switzerland). After dinner a dance and social was held. Those who contributed to a musical programme included Mr. Glavin, Misses D. O'Donovan and N. T. Murray from Cork, and from Kerry, Messrs. J. F. Cranitch, Killarney, and D. Daly, Tralee. Of the party of ninety-two who attended dinner, fifty-nine came from Cork and thirtythree from Kerry.

Hospital Fund Dance

A DANCE held in Howth, Dublin, recently, in aid of the nurses' home building fund of the Mater Misericordia Hospital (Ireland's largest teaching hospital) was organised by Mrs. D. Dolan (wife of the managing director of Dominick A. Dolan & Co., Ltd., Dublin (Mr. Dermot V. Dolan)). Those attending included Messrs. P. J. Morgan (managing director, Abbott Laboratories, Eire. Ltd.), P. J. Duggan (sales manager, Albright & Wilson (Ireland), Ltd.), V. J. Albericci (managing director, Brook Chemicals, Ltd.), W. Richardson (chairman, Richardsons (Chemical Manufacturers), Ltd.), and Captain W. Craven, M.P.S.I. (chief chemist, Irish Army).

Official Opening of Factory

LORD GLENTORAN, M.P. (Parliamentary Secretary to the Northern Ireland Ministry of Commerce) will officially open a new factory of Lucozade, Ltd., in Belfast, on August 19. Mr. J. D. Smart, M.P.S. (managing director) will represent the company.

EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Qualifying examina-tion held by the Pharmaceutical Society in England and Wales in July:—

Adams, Philip J., Colchester
Anderson, Robert, Burnley
Archer, Jorothy G., Cannock
Archer, Jack R., Dringhouses
Arthur, Audrey C., Ickenham
Asker, John R., Stourbridge
Baker, Rodgerick J., Birmingham
Baker, Rodger, Aylesbury
Barrington, James, Stockport
Bayes, Aileen B., Tipton
Bedford, John M., Southampton
Benson, Jeffrey, West Hampstead
Biddle, Victor J., Birmingham
Blake, David W. M., Kensal Rise
Boczkowski, Jan N., Salisbury
Bolton, Eileen M., Bournemouth
Bowley, Berna, Leicester
Bradbury, Cedric H., Delph
Bramham, Arthur F., Richmond, Yorks
Brett, Vermon R., South Woodford
Buckland, Pamela J., Worthing
Carthew, Derek C., London
Clark, Janet M., Wimborne
Cobb, Jean B., Bedford Park
Cole, Ernest B., Winchmore Hill
Collier, Kenneth J., Paignton
Cooper, George A. J., Reading
Coupe, John A., Margate
Cyna, Simon, Stoke Newington
Davies, Henry B., Prestwich
Davis, Mark, New Malden
Dinkel, Maxwell, Royston
Dobson, Henry C., Sunderland
Doyle, Edward B., Stourbridge
Edge, Kathlcen N., Birmingham
Edwards, Derek, Barking
Edwards, Derek, Barking
Edwards, Derek, Barking
Edwards, Christine M., Sedgley
Elder, Helen O. M., Leicester
Egginton, Christine M., Sedgley
Elder, Helen O. M., Leicester
Etton, Frank J., Bournemouth
Evans, Laurie, London
Fennell, John D., London
Gilbert, Graham H., Birmingham
Goodman, Kenneth G., London
Grant, Angus, Southsea-on-Sea
Greenberg, Myer M., London
Grant, Angus, Southsea-on-Sea
Greenberg, Myer M., London
Grant, Angus, Southsea-on-Sea
Greenberg, Myer M., London
Hart, Kenneth, Ilkeston
Hartison, Colin C., Ruislip
Hart, Henry, London
Hart, Kenneth, Ilkeston
Hartison, Colin C., Ruislip
Hart, Henry, London
Harti, Kenneth, Ilkeston
Hastings, Roy, London
Higgins, Dennis W., Stoneleigh
Holt, Brian, Bolton
Hower, John G., Ware
Edferies, John E. J., Midhurst
Jones, Jarcicia E., Thornton Heath
Jones, Trevor G., Bridgend
Keighley, Elizabeth, Kingston-on-Thames
Kent, Anthony V. S., Roath Park
Kimber, Kneale J., New Malden
Levison, Kenneth E., Salford
Jones, Patricia E., Thornton
Howen, John R. T., Lond

Rees-Evans, Michael J. D., London Richmond, Cyril E., Brighton Rotchford, Anthony J., Stoke-on-Trent Sanders, David R., Gtastonbury Sandles, Wilfred J., Earlstown Savage, Thomas J. B., Birmingham Shaw, Jon A., Stone Shutt, Arthur, Newport, Mon Sirrell, Olive D., Shrewsbury Spencer, Christine H. P., Ickenham Stapley, Dennis H., Ashford Stevens, Audrey J., Clapham Stevens, John L., Maidenhead Tanter, Alan H., Pinner Thurley, Alan J., Worthing Tibb, Gajindar S., London Trist, Dennis T., Torquay Varley, Anne C., Eaton Socon Wandless, John A., Bristol Watterson, Charlotte E. L., Chingford Weatherill, Hubert J., Chesham Webb, John M., Birmingham Webb, John M., Birmingham Webo, John M., Birmingham Webo, John M., Bristol Watterson, Charlotte E. L., Chingford Weatherill, Hubert J., Chesham Webb, John M., Birmingham Webb, John M., Birmingham Wildman, Mary, Cheadle Williams, Brian E., Graig Treharris Williams, Brian E., Graig Treharris Williams, Brian E., Graig Treharris Williams, Bavid G., Braunton Wiltshire, Ronald W., Southall Yates, Joy J., Birmingham Young, Maurice C., Hythe Sheila M. Horner, Sherwood, satisfied the examiners and is entitled to be registered as a chemist and druggist. The following candidates satisfied the gistered as a chemist and druggist. The following candidates satisfied the examiners in the Qualifying examina-tion held in Scotland:—

The following candidates satisfied the examiners in the Qualifying examination held in Scotland:—
Addison, Jean C. M., Torphins Alexander, Agnes L., Perth Anderson, Gordon F., Lochgelly Anderson, Violet B., Aboyne Antoun, Wafik N., Kensington Bell, Alan F., Liverpool Blythe, Charles R., Betwick-on-Tweed Bowen, Dolores, Halifax Bunting, Davina A., Edinburgh Calder, Marjory R., Portobello Cameron, Margaret C., Broughty Ferry Cameron, Moira J., Glasgow Cardus, Leslie, Liverpool Chalmers, David H., Inverkeithing Clark, George T., Stanley Clyde, Gavin, Peebles Cooper, Carel J. R., Glasgow Crewe, Nicholas S., Liverpool Crown, Philip, Leeds Dakin, Ralph J. N., Arnold Davidson. George J. O., Aberdeen Dobson, Eric, Bradford Docherty, George B., Glasgow Eastwood, Michael F., Liverpool Escott, Robert S., Bradford Featherstone, Anne M., Leeds Ferendinos, Speros, Que Que Flint, Charles L., Penrith Fraser, Alistair J., Lerwick Fraser, Norman M., Edinburgh Furness, Margaret E., Whitley Bay Goldwater, Brian L., Newcastle-on-Tyne Grace, Peter, Sleaford Gray, Thomas C., London Hale, Alma, Bedlington Hargreaves, Audrey, Bradford Hassall, Barbara A., Scunthorpe Henderson, Isobel R., Elgin Henderson, James, Glasgow Hendry, Margaret R., Banchory Hewetson, Jane, Leeds Imrie, William L. C., York Jessop, Mary, Edinburgh Jones, Anthony P., Dundee, Jones, David H., Hull Longbottom, Douglas, Leeds Longworth, Derek, Bolton Malone, James E., Sheffield McIlwirck, Gwenneth A. M., Edinburgh McIntyre, Oorothy, Aberdeen McPherson, William D., Kincardine Miller, Alistair A., Edinburgh

Moorhouse, Joseph L., Doncaster Muir, David M., Dalkeith Muir, Elizabeth J., Edinburgh Murray, David P., Paisley O'Donnell, Isobel, Liverpool Paine, Maurice J. W., Birmingham Parkinson, Harold, Blackburn Parkinson, Ronald W., York Peet, Colin B., Wigan Philipson, Eric D., West Hartlepool Pinch, Stanley, Lancaster Podhorzer, Joshua L., Leeds Pollock, William, Prestonpans Price, George, Jarrow-on-Tyne Prior, Harry, Manchester Riley, Patricia M., Leeds Robertson, Alexander L., Aberdeen Ross, Vernon E., Huddersfield Rutherford, Brian, Newcastle-on-Tyne Samuel, William Y., Newtongrange Sheard, Glenis M., Leeds Sinclair, William Y., Larkhall Skilbeck, Brian A., Annfield Plain Smith, Arthur, Keighley Smith, Douglas H., Bradford Smith, Laurence S., West Hartlepool Souter, Gordon S., Montrose Stewart, Dennis, Newark Storey, Leslie, Sunderland Taylor, David, Leeds Taylor, Patricia M., Leeds Teague, Bryan J., Leeds Teague, Bryan J., Leeds Tetley, Sylvia H., Salisbury, Rhodesia Thompson, Vernon, Blaydon-on-Tyne Tomlinson, Robert J., Kendal Wadge, Jean, Stanley Walker, Ernest B., Hull Watson, John R., West Hartlepool Whyte, John. Lochore Wightman, Dennis L., Nottingham Wilkinson, John C., Blackpool Wilson, Robert A., Barnsley Wilyman, John M., Louth

INQUESTS

Warning on Drug.—At an inquest recently in Bradford on a seventy-one-year-old man who died from hæmorr-hage resulting from acute ulceration of the stomach after administration of Butazolidin, a verdict of misadventure was returned. The coroner gave a warning of the dangers of the drug.

Wrong Blood Administered.—At an inquest at Battersea, London, recently, on a seventy-five-year-old woman who died in hospital, it was stated that the woman had received a transfusion of the wrong type of blood, as a doctor had not checked the labels on the blood bottles. The deputy coroner said that he did not think there was any reason to suppose that the system of the hospital could be improved.

Penicillin Anaphylaxis. — At an inquest in Hull on July 14 on a fortyone-year-old woman, medical evidence showed that death was caused by acute anaphylactic shock following an injection of penicillin. A doctor at the hospital (Kings'on General) where the woman had died said that the patient had taken penicillin many times before and as a result had be-come sensitive to it. The coroner said that the case was, so far as could be ascertained, only the second of its kind that had been reported in Britain.

LOCAL OFFICERS

Western [London] Pharmacists' Association and Branch.—President, Mr. B. J. Thomas; Vice-president, Mr. R. W. Brooke; Secretary and editor of Western Bulletin, Mr. S. J. Turner, 809 Harrow Road, London, N.W.10; Assistant Secretary, Mr. I. H. Williams; Social Secretary, Mr. C. Evans; Treasurer, Mr. D. T. Lores

MARRIAGES

RYAN—YOUNG.—At Prestonfield Church, Edinburgh, on August I, James W. Ryan, Boston, Lincs, to Patricia Young (younger daughter of Mr. A. Young, M.P.S., 2 Chesser Crescent, Edinburgh, 11).

Diamond Wedding

CALVERLEY—SWIRE.—At Devonshire Street Congregational Church, Keighley, Yorks, on August 7, 1903, John Calverley, to Hannah Swire, Keighley. Present address:—2 Cark Road, Keighley. Mr. Calverley, who was for many years a member of the council of the Leeds Chemists' Association, and qualified in 1890, was in business at 141 Beeston Road, Leeds, until he retired in 1935. The business is still carried on under the old title of Calverley & Shooter by Mr. Calverley's late partner, Mr. T. Shooter, M.P.S.

DEATHS

ATKINS.—Recently, Mr. Abraham Atkins, 20 Abbott's Terrace, Halifax, aged seventy-three. Mr. Atkins was a partner in the firm of E. Atkins, druggists and drysalters, Halifax.

HANLON.—On July 29, Mr. Daniel Hanlon, M.P.S., 55 Roxburgh Street, Greenock, Renfrews, aged fifty-nine.

LYON.—In February, Mr. William Lyon, Sunnilea, Fochabers, Morays. Mr. Lyon qualified as a chemist and druggist in 1890 and passed the Pharmaceutical Chemist examination in 1892. Before he retired in 1925 he had worked with Powell & Co., Ferry Road, Leith, and as manager for Smith & Bowman at their Crichton Place, Leith, branch. From about 1900 he had his own business at 37 South Trinity Road, Leith. Mr. Lyon contributed a number of papers at evening meetings of the Pharmaceutical Society held in Edinburgh. He was also an active member of the Edinburgh Chemists', Assistants' and Apprentices' Association.

MORRIS.—At the Oswestry hospital on July 23, following an illness, Mr. William Edward Morris, M.P.S., 2 Hill Farm, Racecourse, Oswestry, Salop, aged thirty.

SPENCER.—Recently, Mr. Norman Spencer, Ph.C., 78 Southbank Road, Coventry, aged forty-one.

BUSINESS CHANGES

THE telephone number of Smith & Hill (Chemists), Ltd., Matilda Street, Sheffield, 1, has been changed to Sheffield 28383.

MR. MICHAEL C. WHITE, L.P.S.I., has acquired the pharmacy of Mr. Patrick Teehan, M.P.S.I., 101 High Street, Kilkenny, co. Kilkenny.

MR. J. F. DALLAS, Ph.C., has acquired the business of Mr. John Noble, M.P.S., I Gladstone Place, Leith, Edinburgh, 6 (see p. 159).

THE telephone numbers of Biorex Laboratories, Ltd., 47 Exmouth Street (Market), Rosebery Avenue, London, E.C.I., are now Terminus 9494, 5216 and 5217.

PLYMOUTH CO-OPERATIVE SOCIETY, LTD., have opened a new branch pharmacy at 38 Hornchurch Road, Ernesettle, Plymouth.

Appointments

A. G. HERSOM, manufacturers of perfumery compounds, 119 Richmond Road, Kingston-on-Thames, Surrey, have appointed Mr. E. W. Elby a representative. He will probably cover areas North of the Thames up to the Midlands, and the Potteries and other areas.

POTTER & MOORE, LTD., Lavender House, Seymour Road, Leyton, London, E.10, have appointed Mr. L. E. Gascoyne, 17 Sacheverel Street, Derby, their representative in the North and East Midlands; and Mr. A. H. L. Davis, 10 Elmbridge Road, Perry Barr, Birmingham, their representative in the Midlands and South Wales.

NEW COMPANIES

P.C. = Private Company; R.O. = Registered Office

APLINS (STUDLEY GREEN), LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in toilet requisites and cosmetics, etc. Subscribers: John H. Aplin and Robert J. Aplin. First directors are not named. Societors: Sylvester & Mackett, Trowbridge.

KILCO CHEMICALS, LTD.—Capital £100. To carry on the businesses of manufacturers and importers, exporters of and dealers in, chemicals and chemical compounds of every description. Directors: Gerald McGladdery, Isabella Barron McGladdery, Belfast. R.O.: 13 Donegall Square North, Belfast.

COYLE & QUINN, LTD.—(P.C.). Registered in Belfast July 10. Capital £2,000. To carry on the business of wholesale and retail pharmaceutical, veterinary, analytical and dispensing chemists, etc. Subscribers: John Edward Coyle, M.P.S.N.I., 51 Garden City, Londonderry, Thomas J. Quinn, M.P.S.N.I., 61 Chapel Road, Waterside, Londonderry. First directors are not named.

GEORGE MAYOR (PHARMA-CEUTICALS), LTD. (P.C.). — Registered August 4. Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. Directors: Noel L. Allport, Walter A. Ward and Cyril M. Edridge, Solicitors: Henry Boustred & Sons, 115 Moorgate, London, E.C.2. R.O.: 325 Kennington Road, London, S.E.11.

CHLORINE BLEACH PRODUCTS, LTD. (P.C.).—Registered August 5. Capital £1,000. To carry on the business of manufacturers of and dealers in chemicals and chemical substances, liquids and gases of all kinds, etc. Directors: Ernest Smith and George Smith. Secretary: G. Smith. Solicitors: C. E. Halliwell & Son, Bury, Lancs. R.O.: Lower Nuttall, Ramsbottom, Manchester.

S. HAYDOCK & CO., LTD.—Capital £15,000. To acquire and take over the business of chemists' sundriesmen

carried on by the late Samuel Haydock and Wilson Stewart as partners under the style of S. Haydock & Co. Directors: William James Haydock, Mary Haydock, secretary, and Elizabeth Haydock, co. Antrim, and William Stewart. R.O.: 21 Corporation Street, Belfast.

WHITEHEAD CHEMICAL CO. (WAXES), LTD.—(P.C.) Registered July 29. Capital £100. To carry on the business of manufacturers and mcrchants of chemicals, and all types of waxes, natural and synthetic and petroleum residues, ctc. Directors: Arnold Whitehead, Robert W. Hague, John Waldie. Secretary: R. W. Hague, John Waldie. Secretary: R. W. Hague. Solicitors: Boardman & Co., Manchester. R.O.: Holt Mill Road, Waterfoot, Lancs.

REES & WARREN (BARRY), LTD.—(P.C.). Registered July 25. Capital £2,500. To carry on the business of retail and wholesale chemists, etc. Directors: Mrs. Marjorie Rees, 238 Holton Road, Barry, Glam., Miss Nancy E. Jenkins, 11 The Grove, Barry. Secretary: Mrs. Marjorie Rees. Solicitors: J. A. Hughes & Co., 85c Holton Road, Barry. R.O.: 238 Holton Road, Barry.

CLAFLIN CHEMICAL, LTD.—(P.C.). Registered July 28. Capital £500. To carry on the business of manufacturers of and dealers in substances used in medicine, pharmacy, perfumery and toilet articles of all kinds, etc. Subscribers: Patrick J. Gaynor and Ann K. Hutton, 12 Whitehall, London, S.W.1. First directors are to be appointed. Solicitors: McKenna & Co., 12 Whitehall, London, S.W.1.

Company News

FULLERS' EARTH UNION, LTD.—Ordinary shareholders are being offered a new issue of 266,934 Ordinary 5s, shares at 10s, 3d, a share in the ratio of one-for-three already held, with the right to take up any excess shares.

LEGAL REPORTS

Fines for Embezzlement.—At Glasgow sheriff court, recently, Alexander Roberts Paterson, 4 Burnblea Street, was fined £10 after he had been found guilty of embezzlement. The charge was that, while acting as an agent and collector of accounts for Approved Prescription Services, Ltd., Batley Yorks, he received sums totalling £58 from persons and firms in Lanarkshire Glasgow and elsewhere and had embezzled them. The offences, eight it all, took place over a period of abounine months from July 1952.

Imprisonment on Fraud Conviction — At Airdrie sheriff court recently John Joseph Flanigan, M.B., Ch.B. Coatbridge, admitted defrauding Lanarkshire Executive Council of £43 15s. The charges involved making false claims of service to patients. Howas sentenced to sixty days' imprisonment, the sheriff saying that the cas was so serious that only a term of irr prisonment would meet it. Flangan's solicitor stated that an appear would be lodged.

PERSONALITIES

MR. R. GORDON DRUMMOND, M.P.S., Falkirk, has been elected president of Falkirk Rotary Club.

COUNCILLOR T. SCOTT SUTH-ERLAND (founder of Moore Medicinal Products, Ltd.) has presented Garthdee House, Aberdeen, to the governors of Robert Gordon's Colleges, Aberdeen, for use as a school of architecture, subject to his life-rent.

MR. JOHN NOBLE, M.P.S., who has been in business at 1 Gladstone Place, Leith, for fifty-two-and-a-half



years, retired on July 31. Mr. Noble believes that chemists' work today does not give the same pleasure as formerly. After qualifying in 1901 he started as a manager of the business and later purchased it. In all his fifty-two years Mr. Noble has been off work for only one half-day. He takes a keen interest in bowling and golf activities and is a past-president of Edinburgh Chemists' Golf Club and of the , Edinburgh and Leith Bowling Association.

THE following members of the American Society of Hospital Pharmacists are attending the meeting of the British Pharmaceutical Conference, London, or of the International Pharmaceutical Federation, Paris, or both, in September: -Mr. V. R. Beck (president); Miss Margaret Bingham, Michigan; Mr. and Mrs. L. Block, California; Dr. Herbert M. Cobe, Pennsylvania; Dr. H. L. Daniell, Wisconsin; Mr. and Mrs. Gilbert Fletcher, Michigan; Miss Linda J. Ford, Michigan; Mr. Don E. Francke, Michigan (chairman, A.S.H.P. Committee on International Hospital Pharmacy Activities); Mrs. Elizabeth Henley, California; Miss Ursula Heyer, Wisconsin; Misses Sadie Jacobs and Freda Jacobs, New York; Mr. Cornelius Keyser, Michigan; Mrs. Nathan E. Konold, Florida; Mr. Frank Kunbel, Ohio; Miss Oma Dell May, Alabama; Misscs Belle Moskowitz and Mol'y Moskowitz, Michigan; Colonal Househalt Research gan; Colonel Howard B. Nelson (U.S. Air Force); Miss Gloria Niemeyer (secretary); Mrs. Ethel Pierce, Massachusetts; Dr. W. Arthur Purdum, Maryland; Mr. I. Thomas Reamer, North Carolina; Mrs. Anna C. Richards, New Jersey; Lieutenant-Colonel H. Dale Roth, District of Columbia; Mr. E. Shenkrow, Arizona; Dr. Glenn A. Sonnedecker, Wisconsin; Miss Geraldine Stockert, New Jersey, Miss Rhea Thomas, Indiana; and Mr. Norbert Wegemer, Michigan.

CHEMICAL WORKS ODOURS

THE problem of smells emitted by works manufacturing pesticides is re-ferred to in the annual report for 1952 of the Chicf Alkali Inspector of the Ministry of Housing and Local Government and the Chief Inspector for Scotland, published by H.M. Stationery Office (price 2s. 6d.). Two such major cases were investigated. At one the use of parachlorcresol in the production of selective weed killer had previously caused local complaint and it was thought that the trouble had been overcome by draughting of the chlorcresol melting cabinct and the reaction vessel to a caustic soda scrubber, but complaint continued. The plant was removed from the open into a large hangar and the ground formerly occupied was excavated and thoroughly

decontaminated. The company offered to enclose the plant more closely and ventilate to a scrubber. The report adds that "the smell from the process is extraordinarily persistent and it is difficult to see what further steps can reasonably be taken short of abandoning it altogether." The other case referred to complaints received of a smell thought to be due to chlorine derivatives of phenol or its homologues emitted from a factory. A chlorinated compound is used as a solvent and imparts a not unpleasant odour to the immediate vicinity, but, the inspector states, it is difficult to understand what could have originated a smell which, according to the complainants, was noticeable two miles away.

PHARMACY IN AMERICA

AT the 1953 annual summer meeting of the East Metropolitan Branch of the Pharmaceutical Society held in Buckhurst Hill on July 23, Mr. H. S. Grainger (chief pharmacist, Westmin-Ster Hospital) gave an address on "Pharmacy and Pharmacists in America." In the U.S.A., said the speaker, the need for a retail pharmacist to display manipulative dexterity has disappeared. Hospital pharmacy there had developed rapidly in the past fifteen years mostly owing to only a small group of pharmacists. Hospital pharmacy in America does not have as lengthy a history or tradition as that in Britain. A scale of minimum standards for hospital pharmaceutical departments has been laid down by the State health service. Ame ican Society of Hospital Pharmacists controls employment. Hospitals are owned by universities, churches, mutual aid societies and, often, private companies.

Each State has its own pharmacy law and a statutory pharmacy board. Reci-

procity between States is not always readily available. The American Pharmaceutical Association (not a statutory body) looks after the professional interests of members. When the speaker was in the U.S. he had found that a hospital chief pharmacist's job there was similar to his own. He did not consider that his American colleague was more than slightly better off, financially, than himself.

There was a sharp division between the American drug store and shops owned by members of the Society of Apothecaries. The latter did mostly prescription work and received high fees. Some of them made private arrangements with doctors to write prescriptions in code—a practice unethical by British standards. There did not appear to be any establishments "in between" to compare with British good class pharmacies." In conclusion Mr. Grainger said that the British pharmacists compared in every way favourably with his American colleague.

ADVICE ON N.H.S. COSTS

THE Committee of Public Accounts, in its third report, just published, points out that current inquiries being undertaken into the costs and profits of manufacturers of non-proprietary and proprietary drugs and dressings are expected to deal with between onethird and one-half of the cost of the drug bill. The Committee felt "bound to express their regret that after such long considerations so little has yet been done" on price matters, and they were particularly disappointed that price negotiations had been con-cluded for only two out of 8,000 proprietary preparations which, they say, are responsible for about one-third of the total cost of prescriptions. They express surprise that the Departments regarded the imposition of health charges as a valid reason for postponing inquiries into the remuneration of chemists, and record their emphatic opinion that the Departments should intensify their efforts to ensure that "fair" prices are paid for commodities in substantial demand in the Health Service. No increase in remuneration should be considered, they recommend, unless the fullest facilities

are given for inspection of books and records.

On hospital cost accounting the Committee believes that a more detailed system of costing could give a proper basis of comparison between hospitals and could provide hospital officers with fuller knowledge of the expenses they are incurring.

The latest estimate of the prescribing of proprietaries in England and Wales showed that those preparations represented about 26 per cent. of all prescriptions and about 52 per cent. A classiof the cost of ingredients. fication by the Ministry of 666 commonly used proprietaries showed that 101 had an exact standard equivalent, 100 a near standard equivalent and, of the remaining 465, twenty-four were new drugs of approved value not yet standard, while the rest were recorded as not therapeutically superior to standard preparations. The Committee expressed the hope that the Ministries would keep doctors informed of the comparative prices of proprietary drugs and of their standard equivalents.

Copies of the report are obtainable from H.M. Stationery Office price 1s. 3d.

DENTAL REGULATIONS AMENDED

New List of Prescribed Drugs

By the National Health Service (General Dental Services) Amendment Regulations, 1953 (S.I. 1953, No. 1178) made by the Minister of Health on July 30 and coming into operation on August 15, the list of drugs that a dental practitioner may supply or prescribe under N.H.S. is as follows:—

Drugs

Acid. acctylsalicyl.
Acid. benzoicum
Acid. boricum
Acid. boricum
Acid. tannicum
Alumen
Borax
Caffeina
Calc. gluconas
Calc. lactas
Chloralis hydras
Hydrargyri subchlor
Magnesti sulphas
Oleum caryophylli

Phenacctinum
Phenol
Potass, brom
Potass, chloras
Potass, cermang
Quininae sulphas
Sod, bicarbonas
Sod, chloridum
Sod, perboras
Sod, sulphis
Zinci chloridum
Zinci sulphas

Compounded Drugs Aq. chloroformi, boracis et benza-Aq. menth. pip. minae co., B.P.C. Cataplasma kaolini, proflavinae, B.P.C. B.P. sodii chloridi, B.P.C. COLLUTORIA: thymol. co., B.P.C. acid. tannici, B.P.C. TABELLAE: formaldebydi, B.P.C. phenolis alk., B.P.C. acetomenaphthoni, B.P. sod, chloridi co. acid. acetylsal., B.P B.P.C. thymolis co., B.P.C. acid. acetylsal. co., B.P.C. zinci sulphat, et zinci acid, acetylsal, et chloridi, B.P.C. Elixir eascarae sag. B.P. phenacetini, B.P. acid, acetylsal, et Emulsio chlorof B.P. quinin co. (Drug Emuls, menth. pip., B.P. Tariff) acid, acetylsal, solu-GARGARISMATA: biles, N.F. ferri perchlor., B.P.C. phenolis, B.P.C. acid ascorbici, B.P. pot. chlorat. et acid, nicotinici, B.P. phenol., B.P.C. calc. c. vitam. D, Glycer, acidi tannici, B.P.C. B.P. calc. gluconat., Glycer, thymol, co., RPC ealc, lactatis, B.P. B.P.C. Haust, chloral, B.P.C. calc. et sod. lactatis, LIQUORES: B.P.C. amaranthi, B.P.C. cascar. sag., P.P.C. casear. sag. eo., azorubri, B.P.C. formaldehydi, B.P. B.P.C. hydrog. perox., B.P. iodi mitis, B.P. codein, co. B.P. codein, phosph., B.P. hydrarg. subchlor., sod. cblorinat. chirurg., B.P. B.P nicotinamidi, B.P. Mist, mag, hydrox., B.P. phenacetini, B.P. phenacetin, et Mist. mag. sulph. alb., caffein., B.P.C. B.P.C. PIGMENTA: Tinct, pyrethri, B.P.C., arseni et ipecac., 1934. N.F. iod. co., B.P.C. Trochisci: benzocain, co., B.P.C. tincto., B.P.C. formaldebydi, B.P.C. pesicillini, B.P. SOLVELLAE:

BARBITURATES:

pro collut., B.P.C.

Tablets of any single barbiturate (that is, unadmixed with any other barbiturate or other drug) included in the National Formulary for the time being, capsules of quinalbarbitone, and tablets or capsules of the single barbiturates amylobarbitone, amylobarbitone sodium and pentobarbitone sodium.

pot, chlorat., B.P.C.

SULPHONAMIDES:

Tablets of any sulphonamide included in the National Formulary for the time being, except tablets of sulphaguanidine, succinylsulphathiazole and phthalylsulphathiazole.

The new regulations also provide a procedure for the removal of the name of a dental practitioner from the dental list of an Executive Council,

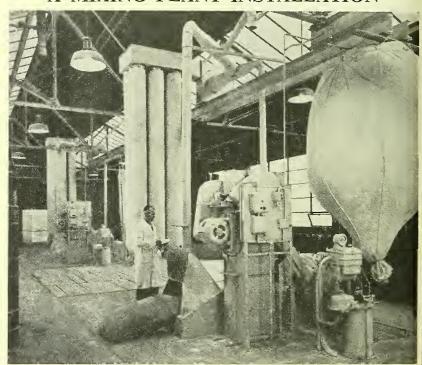
where such a practitioner has never provided general dental services during the preceding six months or has ceased for that period to provide such services. Similar regulations providing for the removal of the name of an ophthalmic medical practitioner, ophthalmic optician or dispensing optician from the ophthalmic list of an Executive Council were made by the Minister on July 30 (The National Health Service (Supplementary Ophthalmic Services) Amendment Regulations,

1953 (S.I., 1953, No. 1177)). Those Regulations, which came into force on August 1, also enable a Council in hardship cases to pay all or part of the cost of repairs of glasses broken by lack of care.

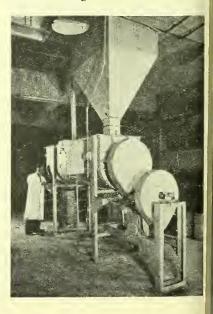
Improved Dental Remuneration

The National Health Service (General Dental Services) Fees (Amendment) Regulations, 1953 (S.I., 1953, No. 1176) made by the Minister on July 30 and coming into operation on August 15 provide for extra payments in a certain type of case; and increase the remuneration of the dental practitioners at health centres.

A MIXING PLANT INSTALLATION



Wм. Gardner & Sons (Gloucester), Ltd., Bristol Road, Gloucester, have supplied and erected the major part of new plant installed at the Liverpool works of the Liverpool Borax Co., Ltd. The premises in which the plant has been erected have been occupied by the company for over fifty years. They were rebuilt on the original site as a two-story building at the end of the 1939-45 war. Products for the subsidiaries, Feedwater Specialists Co. and Andrew Maxwell, are manufactured at this factory. Feedwater Specialists specialise in the treatment of water for steam raising plant and other industrial purposes. The Andrew Maxwell subsidiary is mainly concerned with industrial cleaners and coatings. Disintegration of raw materials is done in a rotary tooth-breaker situated on the first floor and then conveyed automatically by elevators to mills. there the products, now of a uniform fineness, are fed by gravity to a mixer on the ground floor, the product being drawn off into suitable containers. The illustrations show, above, the dust-extraction and spraying equipment of the sifting, mixing and spraying plant; below, the mixing plant discharging direct into bags.



MACHINERY AND PLANT NOTES

Infra-red Heating. — Where damage would be caused by prolonged convection heating, infra-red may provide the answer. The proper design of a plant involves a close study of the process, and for that purpose some manufacturers maintain laboratory facilities

such as those at the demonstration laboratory of Metropolitan-Vickers Electrical Co., Ltd., at 132 Long Acre, London, W.1. For some operations a standard unit is adequate. In the illustration bottles capped with viscose are being passed through an infra-red chamber from which they emerge dry and ready for inspection. and ready for inspection.

Rust Remover.—A solution that can be used either cold or warm and either by immersion or by brushing in the removal of rust from iron and steel products is marketed under the name Pre-perite No. 1 by Pyrene Co., Ltd., Great West Road, Brentford, Middle-

Overhead-track Accessories.--In factories where objects are conveyed by overhead track, travelling pulley blocks built in to the trolley enable every inch of factory space to be put to the fullest use. A range of pulley blocks and of electric chain hoists is offered by Herbert Morris, Ltd., Loughborough.

Tube-tilling Machine.—The address of Ideal Packagings, Ltd., agents for the of Ideal Packagings, Ltd., agents for the G.S. fully automatic tube filling and closing machine (C. & D., June 13, p. 639) is 1 Shrewsbury Road, London, N.W.10. The name and address of the makers of the machine is Ganzhorn & Stirn, Schwaebisch Hall, Wuerttemberg, Germany (Germany) berg, Germany. [Corrected note.]

Industrial Stirrers. — The S.8 standard factory stirrer of Voss Instruments, Ltd., Maldon, Essex, has a $\frac{1}{8}$ horse-power motor giving controllable speeds from zero to 3,000 revolutions per minute. If larger stirrers are required the buyer is required to specify type of materials handled, type of stirring required, variety of paddles, and speed.

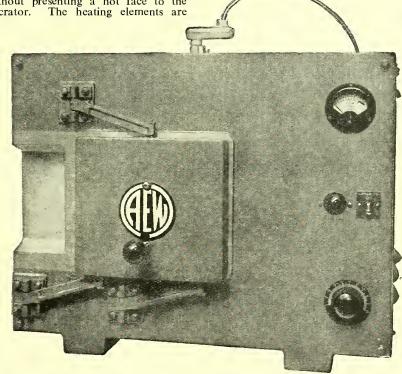
Plaster Bandage Machine.—A new plaster-of-Paris bandage - covering machine that can be used in fracture

required quantities of plaster of Paris in any width of bandage up to 6 in., at about 100 bandages hourly.

High-efficiency Electric Furnace. The A.E.W. electric furnace illustrated below has many features claimed by the makers, A.E.W., Ltd., Edgware, to give high efficiency and long life. The inset door prevents heat losses and maintains an even temperature throughout the chamber; it is swung on a three-point hinge that allows the door to pull out and turn to the side without presenting a hot face to the operator.

clinics of hospitals is being imported carried in a series of interlocking refrom Germany by Arthur Gill fractories in which they can freely ex(London) Ltd., 5 Denmark Street, pand and contract. Heat losses are
Charing Cross Road, London, W.C.2. prevented by 6 in. of heat insulation
The machine is compact and can be on all sides. Temperature, pyrometer
adjusted easily with simple levers. It indicator, pilot lamp and switch gear
weighs 60 lb. and covers bandages with
are contained in a subsection of the
casing, as shown. Type D3 has a
chamber working space 6 x 6 x 6 in.,
and type D4, 6 x 6 x 12 in.

Gas-tight Radiators. — When Dimplex, Ltd., manufacturers of oil-filled thermostatically controlled radiators, Totton, nr. Southampton, Hants, were faced with the problem of supplying radiators for use in hospitals, and par-ticularly in operating theatres, they had to avoid the thermostatic control fitted to the domestic models because it was not gas-tight and was therefore dangerous to install in ether-laden atmospheres. They overcame the difficulty by designing a gas-tight head that could be screwed on to the radiator stub and locked by means of an internal The modification prevented the possible leakage of oil and the ingress of gas, but if blankets or other coverings were draped over the heater they caused dissipation of heat and rise in temperature of the radiators without control by the mercury thermostat. The problem was overcome with a manual reset excess temperature cutout within the gas-tight terminal head. The cut-out operates at approximately 230° F., and can be reset only by the removal of the cover plate of the terminal head, which is secured by four special cup-head screws necessitating the use of a special key. Many of the radiators are already in use.



TRADE NOTES

Surgical Scissors and Scalpels.—Marshall & Jenkinson, 90 Bowdon Street, Sheffield, 3, invite inquiries for surgical scissors, scalpels, etc.

Moulds and Presscs.—Kenneth Reed & Co., Ltd., 47 Victoria Street, London, S.W.1, offer suppository moulds, tincture presses, powder folders, etc.

Lavender Gift Boxes.—J. C. & J. Field, Ltd., Amersham, Bucks, have produced two gift boxes containing



items in their Buckingham lavender series. A gentlemen's box contains lavender shaving bowl and liquid brilliantine. A lady's box contains talcum and two tablets of soap.

1954 Calenders.—James Townsend & Sons, Ltd., Little Queen Street, Exeter, point out to users of advertising calendars that time is short for ordering for 1954. They offer samples.

Two-year Guarantee.—The Progress Shaving Brush Co., Ltd., Mottram Street, Stockport, Ches, describe their Vulfix shaving-brush (pure badger and pure bristle) as "the shaving brush with the two-year guarantee."

A Business Transfer.—Orridge & Co., Ltd., 184 Strand, London, W.C.2, have effected the transfer of Armstrongs (Cambridge), Ltd., 5 Norfolk Street, Cambridge, to William Martindale Wholesale, Ltd., 14 Bruton Place, New Bond Street, London, W.1.

Available Overseas.—Glaxo Laboratories, Ltd., Greenford, Middlesex, state that colloidal calcium with Ostelin continues to be available in all overseas markets.

In All-metal Spools Again.—Dalmas, Ltd., Junior Street, Leicester, state that they are again able to supply Dalzo-flex plasters sizes 1 in. x 1 yd. and 1 in. x 3 yd., in metal spools.

Now in Mirror Case.—Angel Face, the combined foundation and face powder offered by Pond's Extract Co., Ltd., Perivale, Middlesex, is now marketed in a cream and gold case with mirror and satin-backed puff. It is available in seven shades.

Price List Error.—Sharp & Dohme, Ltd., Hoddesdon, Herts, regret that in their recent price list (dated July 24) the sizes of Cremothalidine were incorrectly given. They should be 4 and 8 fl. oz. The prices given in the list are correct for those sizes.

Medical Film.—I.C.I. Film Library, Imperial Chemical House, Millbank, London, S.W.1, has added the following medical film to its stock: "Marrow Puncture" (M.32). Running time: 33 minutes, 16-mm. Coloured. The film was made in collaboration with the Staff of the Pathology Department, Oxford United Hospitals.

Trade Name Withdrawn.—Allen & Hanburys, Ltd., Bethnal Green, London, E.2, sole licensees for the manufacture in the United Kingdom of morpholinylethylmorphine, announce that, as the General Medical Council has adopted Pholcodine as the approved name for the compound, they are, in the interests of simplicity, withdrawing their trade name Ethnine for that substance.

Radiant Heat.—Infra-red apparatus available from the London Commercial Electrical Stores, Ltd., 20 Cursitor Street, London, E.C.4, includes the SolTan Classic dual-purpose (infra-red and radiant heat) model in ivory and eau de nil with chromium-plated fittings, supplied against doctor's certificate or for professional use; and the Sol-Tan Tripleray portable model producing ultra-violet, radiant-heat or infra-red rays at a touch of a switch.

Three Months' Supply as Prize.—Each month until December a three-months' supply of Modess sanitary towels is being awarded by Johnson & Johnson (Gt. Britain), Ltd., Personal Products Division. Wrexham & London, to the shop whose sales of Modess exceed the average for its type and size of outlet by the greatest percentage margin. To the counter assistant responsible a prize of an evening gown specially made by a London fashion designer, and a two-days' luxury holiday in London, are being awarded. If several assistants are involved, a cash prize is being divided between them. Full details of the competition and

prizes have been sent to retailers and wholesalers.

Colchicine Supplies.—Metallurgical Chemists, Ltd., Gresham House, 24 Old Broad Street, London, E.C.2, have acquired from Universal Crop Protection (agents for Pal Chemicals, Ltd.) the stock-in-trade, manufacturing plant and rights in coichicine. Production has been resumed in their own wo ks. Any commercial quantity of colchicine or colchicine salicylate can be supplied from stock. Messrs. Metallurgical Chemists state that, after their colchicine has been extracted and purified to the standards of the British and United States Pharmacopæias, it is submitted to chromatographic purification, which removes bright yellow impurities that occur to the extent of 4 per cent, in material complying with the requirements of the B.P. and U.S.P.

Pocket-size Calculating Machine.— Weighing only 8 oz., the Curta cal-culating machine made by Contina, Ltd., Liechtenstein, and supplied in Britain, the Crown Colonies and Eire by London Office Machines, Ltd., 128 Terminal House, Grosvenor Gardens, London, S.W.1, adds, substracts, multiplies, divides, squares, cubes and extracts square roots. It is held in one hand while operated, is shent, proof against wrong handling and, on account of the small size of all moving parts, speedy. A Curta calculating machine was used to work out the results of physiological experiments in the recent successful attempt on Everest. It was operated with complete success and 100 per cent. accuracy in all the varying atmospheric conditions. The Curta is also being used by the British North Greenland expedition for gravity calculations and navigation on the ice cap.

N.H.S. STATISTICS

Prescriptions dispensed in areas of Executive Councils

In NORFOLK in the year 1952-53. 663,000 prescriptions were dispensed against 682,000 the year before. The cost of the pharmaceutical services was £223,000 last year.

In HULL the pharmaceutical services cost £372,620 including £2.188 rota fces in the year 1952-53 (£410,274 and £2.088 in 1951-52). The total number of prescriptions was 1,969,202 (2.011,013).

In York in the year ended March 31, 668,000 prescriptions were dispensed at a cost of £139,112. The average cost of the prescriptions was 4s. 4d.—threepence above the national average. The number of prescriptions showed an increase of 31,000 over the previous year: the number of forms a decrease of 12,000.

In BUCKINGHAMSHIRE in the year ended March 31, total payments to contractors—including appliance suppliers—was £280,498. The number of persons on doctors' lists at March 31 was 371,062. Out of fifty-eight test

prescriptions during the year only one had to be referred to the Pharmaceutical Service Committee for investigation—the first to require serious action by the committee since the inception of the National Health Service, One case was outstanding at March 31.

In Middlesex in the year ended March 31, 385 tests were taken under the drug and appliance testing scheme. Twenty-eight cases (a decrease of 35 per cent. on the previous year) were considered by the Pharmaceutical Service Committee. Six of those cases were miscellaneous complaints and nineteen arose from the testing scheme. In three of the cases a monetary penalty was imposed. Warnings were issued in twenty-three cases and two cases were dismissed without a hearing. During the year payments on account were made for 12,182,377 prescriptions compared with 11,684,210 the year before. The number of persons on doctors' lists in the County is estimated to be 2,321,706 and there are 734 premises on the pharmaceutical list undertaking dispensing.

The

SUPPLEMENT

Head Office: 28 Essex Street, Strand, London, W.C.2.

Telephone: Central 6565.

Telegrams: Chemicus, Estrand, London.

CLASSIFIED ADVERTISEMENTS MUST BE PREPAID. For rates see sectional headings

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CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL

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BUSINESSES FOR DISPOSAL

17/6 for 36 words (min.) then 4d. per word.

FOR SALE under £1,000. Goodwill and stock of business having small established sales at home and abroad for tooth paste. Reason for selling, lack of capital, Apply Box C 4175.

FYLDE COAST, LANCS. Chemist's business for sale. Large corner shop, separate dispensary. Good living accommodation over shop. Takings £6,000 p.a. Enquiries to F. Law, Accountant, 16 Richmond Terrace, Blackburn.

ISLE OF WIGHT. Outskirts of popular resort, in growing residential area, lock-up drug store and dispensary, well-equipped shop, rent 35s. weekly, main agencies, rising turnover, £500 for goodwill and certain equipment. S.A.V. A. E. & S. C. Wadham, Auctioneers, Cowes.

MAIN ROAD, ILFORD. Double-fronted shop, well fitted as chemists, at present drug store. No opposition for chemist. £1,500, s.a.v. Illness cause of sale. Apply Box C 4148.

APPOINTMENTS

18/- per half-inch (min.) and pro rata.
Box 2/-

AINTREE HOSPITAL, LONGMOOR LANE, LIVERPOOL, 9

Applications are invited for an appointment as PHARMACIST at a salary of £450 x £25 for £575 per annum, plus an additional £25 for a higher qualification. Conditions of service in accordance with the Pharmaceutical Whitley Council.

Applications, giving names and addresses of two referees, to be addressed to the Physician Superintendent.

C 5812

KETTERING GENERAL HOSPITAL, KETTERING . (131 Beds)

Applications are invited for the post of Senior Pharmacist, Modern department. Salary and conditions of service in accordance with Whitley Council scale. This appointment is an original one and offers excellent experience. Applications, stating age, qualifications and experience, together with the names and addresses of two referees, should be sent to the Secretary immediately.

ROYAL FREE HOSPITAL GRAY'S INN ROAD, W.C.1

Locum pharmacist required immediately for approximately one month. Salary £12 12s, per weck. Applications should be addressed to the Group Chief Pharmacist.

CENTRAL GROUP HOSPITAL
MANAGEMENT COMMITTEE,
METROPOLITAN HOSPITAL,
KINGSLAND ROAD, E.8
Acute General (147 Beds)
Applications are invited for the post of
CHIEF PHARMACIST, at the above hospital,
which becomes vacant on October 1, 1953. Salary
in accordance with the National Scales, Category 3, £680 x £25—£780, plus London
Weightling. Applications, giving details of age,
qualifications, experience, together with the
names of three referees should reach the undersigned by not later than August 31.

FRANK CHAMBERS,
Group Secretary,
213 Kingsland Road, E.2.

213 Kingsland Road, E.2. C 5805

EDGWARE GENERAL HOSPITAL,

EDGWARE, MIDDLESEX
Applications are invited for the appointment of PHARMACIST at this large general hospital where there is a busy Pharmaceutical Department and every opportunity to gain a varied experience.

experience.

Salary scale, if over 23 years of age, £450£575 per annum plus London Weighting, and commencing salary is subject to assessment according to previous experience. Whitley Council Conditions of Service, Applications, stating age, qualifications and experience, together with the names of two referees, to Group Secretary, Hendon Group Hospital Management Committee, Edgware General Hospital. General Hospital.

ILFORD AND BARKING GROUP HOSPITAL

GROUP HOSPITAL
MANAGEMENT COMMITTEE
LOCUM PHARMACIST
Applications are invited from Pharmacists for a Locum post at King George Hospital, Eastern Avenue, Ilford, for the period September 5-19. Salary 15 guineas per week.
Applications, together with details of previous appointments, should be sent to the undersigned as soon as possible.

G. AUSTIN HEPWORTH,

Secretary.

King George Hospital, Ilford. C 5823

ROYAL MASONIC HOSPITAL, RAVENSCOURT PARK,

LONDON, W.6
PHARMACIST
Applications are invited for this appointment which will become vacant on September 1, 1953. Salary according to Whitley Council

Application, in writing, giving age, qualifica-tions and experience, with copies of two testi-monials and/or the names of two referces, should be sent to the Secretary and House Governor as soon as possible. C 5803 Governor as soon as possible.

MANSFIELD HOSPITAL

MANAGEMENT COMMITTEE
Applications are invited from Pharmacists for
the post of Pharmacist (two vacancies) in the
Group Pharmaceutical Department.
Salary in accordance with scale £450 x £25 to

£575 p.a

Applications, stating age, qualifications, experience, etc., should be forwarded to the undersigned as soon as possible.

A. ASHWORTH,

Group Secretary.

Oak Bank, Crow Hill Drive, Mansfield.

C 5820

PARKSIDE HOSPITAL (Mental) MACCLESFIELD

MACCLESFIELD

Applications are invited from registered members of the Pharmaceutical Society for the post of Assistant Pharmacist. The post is a newly created one in a hospital which carries out all special psychiatric treatment and is developing Psycho-surgery. The applicant will assist the Pharmacist in the development of sterliising technique. Salary and conditions of service according to Whitley Council agreement. Applications to Medical Superintendent, Parkside Hospital, Macclesfield, Cheshire.

QUEEN CHARLOTTE'S AND CHELSEA HOSPITALS

CHELSEA HOSPITALS

Queen Charlotte's Maternity Hospital, Goldhawk Road, London, W.6, PHARMACIST

(female) required, Salary at age 23 or over within the scale £450-£575 p.a. (depending on age and experience), plus London Weighting. Full board and lodging is available for which an appropriate deduction will be made. Alternatively, an indefinite LOCUM at 11 guineas per week will be considered. Applications together with the names of two referees to the Secretary.

C 5781

ROYAL FREE HOSPITAL GROUP (LIVERPOOL ROAD BRANCH)

(LIVERPOOL ROAD BRANCH)
Part-time, single-handed Pharmacist required for six sessions per week from 9 a.m. to 1 p.m. daily. Salary in accordance with Whitley Council Scale for Part-time Pharmacists. Applications, stating age, experience and names of two referees to be addressed to Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

ROYAL FREE HOSPITAL GROUP

ROYAL FREE HOSPITAL GROUP Applications are invited for the post of Pharmacist at the North Western Branch and Hampstead General Hospital, Hampstead. N.W.3. Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing B.Pharm., Ph.C., etc. Applications, stating age, experience and referees should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

'UNISEC' from the Single Unit to the Complete Pharmacy WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING MYERS of OLD ST. 133/S & 141/7 OLD STREET, LONDON. E.C.I

ASSEMBLER/STOREKEEPER

required, either sex, experienced in Ethical pro-prietaries, patents, toilets, and chemists' sundries. Excellent conditions, scope for promotion. Apply with full particulars to Biorex Laboratories, Ltd., 47/51 Exmouth Street, E.C.1. Phone: Terminus 9494.

Appointments—Continued

ROYAL FREE HOSPITAL

RUTAL FREE HUSTITAL
Applications are invited for the post of Pharmacist at the above hospital, Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing B.Pharm, Ph.C., etc. Applications, stating age, experience and referees should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1.

SCARBOROUGH, BRIDLINGTON, MALTON AND WHITBY GROUP HOSPITAL MANAGEMENT

Applications are invited for the post of Chief Pharmacist (Category III) to the Scarborough Hospital and associated hospitals. The Hospital is modern and adequate dispensing and laboratory facilities are available. Salary £680 x £25-£780. Applications steries

x £25-£780.
Applications, stating age, qualifications, details of experience and accompanied by copies of two recent testimonials or names for reference should be addressed to the Group Secretary at Scarborough Hospital, as soon as possible.

ST. LUKE'S HOSPITAL, BRADFORD

PHARMACIST (female) required. General and Maternity Hospital (Category V), Up-to-date department. Opportunity for specialisation. Whitley Council salary and conditions. Apply Hospital Secretary.

SHEFFIELD NO. 1 HOSPITAL MANAGEMENT COMMITTEE Applications are invited for the appointment of SENIOR PHARMACIST (M.P.S.) at City Peneral Hospital. Salary scale £525 x £25—

of SENIOR PHARMACIST (M.P.S.) at City General Hospital. Salary scale £525 x £25— £625 p.a. (additional £25 p.a. if holding higher qualification). Apply giving full details of age, qualifications, experience, etc., and the names of two per-sons to whom reference may be made, to the undersigned at Nether Edge Hospital, Sheffield 11. W. STANSFIELD. C 5802 Sheffield, 11.

WITWATERSRAND TECHNICAL COLLEGE, JOHANNESBURG,

SOUTH AFRICA
DEPARTMENT OF PHARMACY AND
CHEMISTRY

CHEMISTRY
Applications are invited from suitably qualified persons for the post of
LECTURER IN PHARMACEUTICS
SALARY SCALE: £800 x £40—£1,000 x £50—
£1,100.

Applicants must possess a degree in Pharmacy

61,100.

Applicants must possess a degree in Pharmacy and a pharmaceutical qualification registrable with the South African Pharmacy Board.

Teaching experience and conversance with the organisation of courses of study prescribed for students studying for a pharmaceutical diploma, will be a strong recommendation.

The successful applicant must be suitably qualified to undertake lecturing in pharmacy, pharmacognosy and pharmaceutical chemistry up to the standard required for the Diploma of the South African Pharmacy Board.

Experience and qualifications will determine the commencing notch of the salary scale. The successful candidate will be expected to assume duty at the beginning of 1954.

A temporary cost-of-living allowance is payable, This is £320 per annum for married men and £100 per annum for single men.

Forms of application, which may be obtained from Messrs. Frank Ross & Co. (London), Ltd., 4 Lloyds Avenue, London, E.C.3, should be completed and submitted by air mail to the Director, Witwatersrand Technical College, P.O. Box 3293, Johannesburg, South Africa, as soon as possible.

C 5813

SITUATIONS OPEN

8/6 for 36 words (min.) then 3d. per word. Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

COVENTRY. Pharmacist required to manage pleasant suburban branch pharmacy. Three assistants empleyed (one for dispensing). Free hand given to man willing to run the business on his own initiative, Salary 15-17 guineas per week according to age and experience, C. N. Watts. M.P.S., 129 Daventry Road. C 4162 EDGWARE AND HENDON. Experienced young lady counter assistants required for branch pharmacies in these districts, Apply, with full particulars, to John Harley, Ltd., 153 Regency Street, S.W.1. C 4136 FINCHLEY. Experienced counter assistant (either sex) required for substantial business; excellent opportunity for keen salesman or saleswoman. Good salary and bonus according to results achieved, Living accommodation is not available so that the position would be best suited to a single person or to one already resident within reasonable traveling distance, J. G. D. Lewis, M.P.S., Aldington & Lewis, Ltd., 168 High Road, East Finchley, London, N.2, Tel, Tudor 7786.

C 5751 LIVERPOOL, Qualified manager required for

LIVERPOOL, Qualified manager required for new pharmacy, permanent position. Salary £800 per annum. No Sunday or half-day closing duties, full counter staff and dispensing assistant engaged. Apply to Metcalfe & Co. (Liverpool), Ltd., 34 Landford Avenue, Liverpool 9 ing assistant engaged. Apply to hecean Co. (Liverpool), Ltd., 34 Landford Avenue, Liverpool, 9. C 4143 LONDON Co-operative Chemists invite applications from pharmacists desiring to take appointments as branch managers in London suburbs. Good salaries and commission, pension scheme, etc. Living accommodation in some instances, Well-fitted, modern shops with good supporting staffs, Pharmacists preferring relief duties can undertake extensive tours of branches on a salary and expenses basis with a permanency when required, Applications in first instance to Chief Pharmacist, Grange Road, Leyton, London, E.10. C 4163 MAIDSTONE, KENT. Qualified assistant required mainly for dispensing duties, Permanent and congenial post with superannuation scheme. Provision of house will be considered if necessary. Stonham & Son, Ltd., 70 Bank Street, Maidstone. C 4137 PHARMACIST to manage new shop in N.W.1. Able to control staff. Living accommodation available if required, Salary £850 with excellent prospects for right man to increase. Telephone Welbeck 8365. 9 a.m.-6 p.m. C 4124 OUALIFIED MANAGER and dispenser with excellent prospects for fight that to hecrease. Telephone Welbeck 8365, 9 a.m., 6 p.m. C 4124

QUALIFIED MANAGER and dispenser wanted for good-class country town business. No N.H.S. dispensing. No Sunday duty. Stock-keeping and buying, Good knowledge of high-class cosmetics an advantage. Some photographic. All male competent staff. Particulars and salary, interview later. H. R. Camplin, 5 West St., Horsham, Sussex. C 4171

QUALIFIED MANAGER, lady or gentleman, with interest in both counter and dispensing. Adequate and willing assistants. Salary £858. No accommodation. Stratford (London) district, Please write Box C 4161.

STAMFORD. Pharmacist required to manage new main road branch. Salary, including bonus and rota tees, £800 per annum to commence. Very attractive self-contained flat with garden available at a reasonable rent. This is a permanency with excellent conditions of employment, including 44-hour week and superannuation. Apply, giving usual details, to Peterborough Co-operative Chemists, Ltd., Park Rd., Peterborough, Northants.

UNQUALIFIED lady assistant, for counter and general shop duties, no dispensing. Apply, stating age, experience, and salary required, to Cooper and Wood. 95 Wembley Park Drive, Wembley Park, Middlesex. Wembley 1402. Drive, Wembley Park, Middlester, C 4153
UNQUALIFIED ASSISTANT, either sex, required for busy middle-class pharmacy. Fully experienced counter and dispensing. Apply with details of age, experience, salary required, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12, or telephone Tulse Hill 1738 for appointment.

C 4140

UNQUALIFIED MALE wanted by August or September. Quick counter, Permanency, good wages to right man. No extra or rota duties, Interesting post, Call or write, Hillman, City Chemist, 5 Liverpool St., E.C.2. C 4170

RETAIL (OVERSEAS)

BRITISH COLONY, Wholesale and retail chemists with head offices in England invite applications from pharmacists for positions as managers of their overseas branches, Young unmarried men preferred with experience of retail pharmacy, knowledge of optics an advantage. Tours of short duration with generous home leave on full pay. Free furnished quarters provided, medical attention whilst overseas. First-class air or sea passage paid outward and homeward. Low income tax. Contributory pension scheme, Positions offer interesting remunerative and progressive careers. Apply giving full details of qualifications and experience. Box C 4147.

WHOLESALE

APPLICATIONS invited from persons capable to establish and build up herbs and spices wholesale business, Finance and premises available. Managerial position or partnership to right man, Please write in confidence, Box

OF MANUFACTURING CHEMISTS

available. Managerial position of patientshipto right man. Please write in confidence. Box C 4157.

FIRM OF MANUFACTURING CHEMISTS in West Midlands, specialising in veterinary supply, require qualified chemist, to be in charge of factory. Age 35-45. Excellent opportunities for energetic, capable and enterprising man. Knowledge of veterinary work a great advantage. Some knowledge of seiling also an advantage. Box C 5797

GENATOSAN, LIMITED, a member of the Fison Group, require Medical Representatives to cover General Practitioners, Hospital Medical Officers, etc., in the areas of:—(a) London, (b) Bristol and South-west England. These are well-remunerated and superannuated posts, with good prospects for keen and energetic people, preferably with experience of medical detailing. Full personal details with summary of attainments and experience, also area preferred, should be addressed to:—The Personnel Officer, Genatosan, Limited, 12 Derby Road, Loughborough, Leics, Please quote Ref. "S/M." C 5784

JOHN BELL, HILLS & LUCAS, LTD., have a vacancy in their tablet department for a foreman. Applicant must have a sound knowledge of trade. Excellent prospects for right man, Apply Works Manager, Oxford Works. Worsley Bridge Road, S.E.26. C 4173

LEEDS AREA. Representative required by London firm, must have good knowledge of surgical instruments and hospital equipment, Previous experience essential and connections an advantage. Good salary and bonus, with car if required, for suitable applicant, Apply JGE Dept., Box C 5806.

MANUFACTURING CHEMISTS require a representative with experience and "live" accounts to call on retail chemists in the Midlands, Men between 50 and 60 will be very seriously considered. A car essential. Good remuneration. Apply in writing Box C 5804.

MEDICAL REPRESENTATIVE: Eli Lilly & Co., Ltd., invite applications from keen pharmacists under 35 years of age for the position of medical representative to contact doctors, hospitals and retail chemists in West London. The position is progressive and pensi

PRICER-INVOICE CLERK

Either sex, fully experienced in drugs, ethicals, proprietaries, tablets, chemists' sundries. Good at figures. Permanency. Apply with full particulars to:

BIOREX LABORATORIES, LTD.,

47/51 Exmouth Street, E.C.1. Telephone: TERminus 9494.

Situations Open—Continued

MARCHON PRODUCTS, LIMITED, WHITEHAVEN. CUMBERLAND

Applications are invited from pharmacists or chemists of degree standard, preferably with some post-qualifying experience with a manufacturing company, for a position in Technical Service Department.

The duties involve various aspects of formulation and development work in connection with the use of surface active and related compounds in the cosmetic, pharmaceutical and allied industries, An opportunity will be given of contacting home and overseas customers, in co-operation with the Sales Department.

tomers, in co-operation with the Sales
Department.
The post should be attractive to applicants
aged 25-30 years who possess ambition and
initiative. There is a Pension and Life Assurance Scheme and the salary will be in accordance with qualifications and experience. C 5788

MEDICAL REPRESENTATIVE required by London House to visit doctors, hospitals and chemists in Greater London. Applicants must have had good-class dispensing and pharmacy training and should have an adequate knowledge of pharmacology and of medical terminology. Men between the ages of 25 and 35 are invited to apply, and details of age, experience and salary required should be stated. Box C 163.

MEDICAL REPRESENTATIVE

Applications are invited for the post of medi-cal representative in Hampshire and neigh-bouring counties. Pharmaceutical qualification cal representative in Hampshire and neighbouring counties. Pharmaceutical qualification desirable, but consideration will be given to unqualified applicants with comparable knowledge. Remuneration is by salary and expenses and is progressive. A car is provided. Previous experience not essential as the successful applicant will be required to undergo a course of training. Applications will be treated in the strictest confidence and should be addressed to; Sales Director, Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. C 5783

MEDICAL REPRESENTATIVES. A rapidly expanding company with international connections and marketing a unique range of ethical medical products invite applications from experienced, preferably qualified, medical representatives for the following territories:—South Wales and Bristol; Midlands; Liverpool and West Lancashire; London; and East Scotland. A generous salary and expenses will be paid and a car is provided. There is a company pension scheme. The position offers considerable scope and prospects for those with initiative and ability. Applicants, who should be under 40 years of age, apply giving full details to Box C 5745. MIDLANDS TERRITORY. Representative with experience of this territory is required by leading London company distributing surgical dressings, pharmaceutical and toilet preparations. Established connections will be handed over. Will applicants please state details of experience, age and salary required. Box C 5826
HARMACIST required for management export division northern Manufacturing chemists.

PHARMACIST required for management export division northern Manufacturing chemists. Applicants should give full details age, education, commercial experience. Box C 5810.

PROGRESSIVE distributing house requires the services of a representative for North Wales territory. One with experience of pharmaceutical and toilet preparations and/or plasters and surgical dressings, Letters of application should include details of experience and salary required. Box C 5827.

REPRESENTATIVE required by leading house of manufacturers and distributors of pharmaceutical and toilet preparations, for South Yorkshire territory. Lines are well established and existing connections will be handed over. Please state salary required and give full details of experience. Box C 5825.

AGENTS WANTED

to develop sales of a line in constant use by Chiropodists and Hospitals (not dressings or furniture) easily carried. Good commission offered. Territories available, Scotland, Birmingham and Midlands, South Western Counties. Successful sales are being made in other areas.

Box C 4155.

REPRESENTATIVE with a first-class connection with chemists and departmental stores in the Home Counties north of the Thames, required by a well-known London house. Salary, commission, expenses and car allowance. There is a good connection, Full details to Box AC 83659, Samson Clarks, 57-61 Mortimer Street, London, W.1. C 5822

REPRESENTATIVE REQUIRED by oldestablished manufacturing and wholesale chemists in South Midlands, Applicant must have pharmaceutical qualification. Experience desirable but not essential. The post offered is for an energetic, enterprising man capable of working on own initiative. Applications, in writing, to Bradley & Bliss, Ltd., 6 London Street, Reading. C 4176

Street, Reading.

SALES REPRESENTATIVE commission, expenses, and substantial income; must have established connection and experience in selling to chemists drugs, galenicals, dressings, plasters, proprietaries and chemists sundries. Must be car owner. Some Home Counties and London Territories vacant. Apply to Bjorex Laboratories Ltd., 47/51 Exmouth Street, E.C.1.

SALESMAN WANTED to introduce to London chemists new topical line with good possibilities. Liberal commission, State qualifications and basic salary required, Apply Box C 4178.

SHARP & DOHME, LTD.

Applications are invited from Pharmacists or men with a good Pharmaceutical and/or medical background for positions as MEDICAL REPRESENTATIVES in (a) Hampshire; (b) North Lancashire. Previous experience in Medical Representative Work not essential as training will be given. Remuneration by way of salary and expenses, Pension scheme in force. Apply: Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts.

WHOLESALE (OVERSEAS)

CHEMIST, with experience in the analysis of natural products, required for analysis and process control at a factory producing pyrethrum extract in Nairobi, Kenya, Possession of University degree desirable but experience is essential. Commencing salary £1,000/£1,100. Free passages, home leave and annual bonus, Detailed applications to Box "AG/30" c/o 95 Bishopsgate, E.C.2.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.

RETAIL (HOME)

A STUDENT FROM INDIA, having B.Pharm. degree, from Bombay, requires six months' training in a hospital or a retail pharmacy. Apply Box C 4169.

CHEMIST desires situation, All hairdressers' sundries and beauty preparations. Experienced in control of staff, First-class references, Box C 4165.

DISPENSER, lady, 25 years' experience, desires post, Fully qualified in all duties. Box C 4135.

LADY ASSISTANT, age 40 years, with 26 years' experience of counter, window-dressing and good-class tollets, S.W. district preferred. Thursday half-day if possible. Box C 4166.

PHARMACY MANAGER, aged 31, at present in London, seeks change to return to coastal resort (seven years manager) or market town. Photographic experience, All offers considered and answered. Box C 4174.

YOUNG MALE, unqualified, fully experienced dispensing and counter, seeks position London or near. Help with accommodation appreciated. Box C 4164.

RETAIL (OVERSEAS)

PHARMACIST, 35, married, no children, desires change. Any territory considered. Thorough experience in importing, supplies to hospitals and medical practitioners, Government stores and retail pharmacy. At present manager of pharmacy with turnover of £6,000 per month; overseas since 1942. Will be in England for the next two months, and available for employment three months from date of agreement. This period could be shortened if circumstances necessitate. Box C 4158.

LOCUMS SEEKING ENGAGEMENTS

LOCUM or part-time; London and provincial experience in dispensing; abstainer. Harries, 3 Hanover Gardens, Kennington, S.E.11. C 4154

WHOLESALE

PHARMACIST (lady), good retail and hosoital experience, requires representative condon and/or Home Counties. Car of Box C 4097. Car owner,

REPRESENTATIVE. SMART owner, requires position with reputable manufacturer, Highest refs, Known whole London area chemists and stores, Apply Box C 4160.

AGENCIES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

AGENTS REQUIRED with existing connec-AGENTS REQUIRED with existing connections to carry good quality cellophane-wrapped face cloths in Nortbern England, part Yorkshire, Lincoln, East Anglia, South Midlands, South Wales, Kent, Sussex, Good commission. Selling well in areas already covered. Box

ESTABLISHED AREA AGENTS calling ESTABLISHED AREA AGENTS calling on retail chemists and department stores required to sell attractive proprietary toilet products throughout England and Wales on liberal commission terms, Applications for each area should give full details of age, experience and territory worked in confidence to Box C 5809.

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17/6 for 36 words (min.) then 4d. per word.
Box 2/-

DIABETES, Enquiries are invited from large firms only who are interested in a preparation for diabetes, which can be taken per os. Sample available. All replies to Box C 4152.

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, despatch, etc., of liquid and cream preparations. Box C 164.

WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash, We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued Lines, Surplus and Redundant Stocks, Should you have anything for disposal, please send us samples and particulars, Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3.

BOTTLES, JARS AND CLOSURES purchased for cash; we take this opportunity of advising you that we are open to purchase all stocks of medical bottles, screw caps, gummed tapes and other packaging materials, For top prices communicate, with samples, to Noel Davold & Co. 9 Laurence Pountney Lane, Cannon St., E.C.4, Man. 3915-2.

MISCELLANEOUS SALES 17/6 for 36 words (min.) then 4d. per word. Box 2/-

42 CWT. LIQUID GLUCOSE available, in 6 cwt. drums, Offers invited, Box C 4168,

C 4151

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PRODUCTS

MANUFACTURING CHEMISTS Welbeck Wrks, 93 Cobbold Rd, London N.W.10.

Telephone: WILLESDEN 6873

Miscellaneous Sales-Continued

ARTICLES FOR SALE, Bottles for immediate delivery, below manufacturers' prices:—250 gross No. 4A oval white flint tablet bottles and white metal caps, 12s, per gross; 500 gross No. 3 oval white flint tablet bottles and white metal caps, 12s, per gross; 400 gross No. 2 indirect square amber tablet bottles and white metal caps, 8s, 6d, per gross; 50 gross No. 4 indirect square amber tablet bottles and black bakelite caps, 15s, per gross; 50 gross 2-oz, opal jars and metal caps, 30s, per gross; 70 gross 20-oz, U.G.B. amber s/n Winchesters, 35s, per gross; 2,000 gross 6-oz, s/n white flint medical flats, 13s, 6d, per gross; 50 gross 2-oz, white flint pomades and bakelite caps, 14s, per gross; 70 gross 4-oz, 5-oz, and 6-oz, s/n amber peroxide bottles, 15s, per gross, 50 gross 2-oz, white flint pomades and full details from Messrs, Leon Davis & Co., 9 Laurence Pountney Lane, Cannon St., London, E.C.4.

NYLON tooth-brushes packed in cardboard cartons, each containing two dozen, Onc carton (2 dozen), 9s, Six cartons (1 gross), 42s, Scaled cardboard cartons containing 500, 47. Carriage paid home. Cash with order or C.O.D. Selwin (Northwich), Ltd., Northwich, Cheshire.

ECOND-HAND PLANT: Ampoule machine complete; 80 qt. dough mixer (Hobart type);

Cheshire. C 4150 SECOND-HAND PLANT: Ampoule machine complete, 80 qt. dough mixer (Hobart type); Homogeniser, motorised, 5 in. paste mill. motorised, single phase, 250 volt. Apply with full particulars to Biorex Laboratories, Ltd., 47-51 Exmouth St., E.C.1, or phone Terminus

9494 9494. C 5821
TABLETS, amphetamine sulph. 5 mgm. Euflavine with sodium chlor. 0.875 gr. hydrarg. perchlor. 8.75 gr. Diarrhea 12 gr. all 5s. 1,000. Hyoscine hydrobrom. 1/200 gr. 20s. 1,000. Easton syrup sine quinine 30 minims, plumbi subacctate 10 gr. Argent proteinate 4.375 gr. Potass, permang. 2 gr. all 2s. 1,000. Perfect condition, smaller price for maximum order Ex Sheffield. L. Horne, 98 West Bar, Sheffield, 3. C 4149.

PARTNERSHIPS

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GENTLEMAN thoroughly experienced food colours, flavouring essences required to establish and develop wholesale business. Capital, premises, etc., available, Managerial position or partnership offered to person of ability. Please write full details in confidence. Box Cales.

C4156.

PARTNER. Trustworthy qualified required (lady preferred) to run drug store (est, 14 years) as pharmacy, Excellent scope N.H.S. prescriptions turned away daily. Good sale own preparations, Takings last 12 months, £2,552. Present owner (lady) going abroad to do missionary work so will be sleeping partner, Terms mutual agreement, London, S.W. area, Box C 4159.

TENDERS

HAILSHAM HOSPITAL MANAGEMENT COMMITTEE
Tenders are invited for the supply of drugs for Hellingly Hospital for the twelve months commencing November 1, 1953. Forms of tender may be obtained from the Secretary, Hailsham Hospital Management Committee, Hellingly Hospital, Hailsham, Sussex. C 5818

STOCKTAKING

17/6 for 36 words (min.) then 4d. per word.

QUIET AND ACCURATE workmanship, Over 30 years' practical experience, Detailed inven-30 years' practical experience. Detailed inven-tories supplied to suit your individual require-ments. Your own stock sheets priced. Terms moderate. C. W. Playfoot, 8 Aylward Rd., London, S.W.20. Phone Liberty 4104. C 4077

SALES BY AUCTION

18/- per half-inch (min.) and pro rata. Box 2/-

PALMERS STORES, HAMMERSMITH. (Owing to transfer of control to Littlewoods Mail Order Stores, Ltd.). The whole of the extension departmental store equipment including the chemists' sections, drug runs, chemists' wall showcases, counters with showcase fronts, plate glass display counters, silent salesmen, dispensing counters and screens, cashiers' desks, 25 cash registers, mirrors, display stands, fixtures for stationery, radio section accessories, studio camera, central and bracket clocks electrically illuminated, 2,000 yds. linoleum also office machinery and furniture. National accounting machines, electric adding machines, 8 safes, 12 typewriters, Milners record mobile safes, Roneo steel cupboards and cabinets, etc. B. Norman & Son will sell by auction on the premises as above Tuesday, Wednesday and Thursday, August 25, 26, 27 at 11,30 each day. View Friday, August 21, and Monday, August 24. Catalogues (one shilling) of the Chartered Auctioneers. 2-5 Little Britain, London, E.C.1. C 5819

PREMISES FOR SALE

17/6 for 36 words (min.) then 4d. per word. Box 2/-

NEW SHOP at Grays with two flats above. Vacant. Parade in new estate, serving about 2,000 houses, Opening for chemist, butcher or baker. Other shops already sold to primary trades. Controlled price £5,707 (or £4.587 with one flat). Freehold, Further particulars from Builders Agents, Pearsons. F.A.L.P.A., 13 Orsett Road, Grays. C 4177

WEEKLY

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 25 per cent.; † = Tax 75 per cent.

ALLEN & HANBURYS, LTD, (from August 10) Doz. I.R.P. Doz. 52 0 6 6 R Alficetyn for eye drops WIMSOL, LTD.

Wimzo hand jelly*

P.A.T.A. PROTECTED LIST

GENATOSAN, LTD. GENATOSAN, LTD. Revised quantity discounts to retailers:—In addition to the $2\frac{1}{2}$ pcr cent, settlement discount for payment by the end of the month following month of invoicing, the following rates of quantity discounts apply to all subject items:—£5 orders, $1\frac{1}{2}$ per cent, £10 orders, 5 per cent, £20 orders, 6 $\frac{1}{2}$ per cent. All orders over £3 in value carriage paid.

GLAXO LABORATORIES, LTD.

Doz. 25 72 0 Each 8 0 R Cytacon 50 tablets 64 0 R 250 48 0

TATTOO COSMETICS, LTD. (Agents FASSETT & JOHNSON, LTD.) (addition) 5-day deodorant stick† 9 4 1 9 (Agents:--

NEW PRODUCTS AND PACKS

ARVIN ELECTRIC, LTD.
Arvin 33 electric shaver*

POND'S EXTRACT CO., LTD. ond's Angel plastic case† refill† Face Pond's

SPONCEL, LTD. Spontex sponge*

Doz.

52/24

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for July was 194.5

| Cost | Item | 4 oz. | 1 oz. | 1 dr. |
|--|---|---------|--|---|
| d. per | Item | s. d. | s. d. | s. d. |
| 41 100 gm. 29 25 gm. 32 25 gm. 44 25 gm. 500 gm. 51 500 gm. | Pigment. podophylli, B.P.C. Thymol Aloinum Glyc. acidi borici | 4 8 1 8 | 0 10 4 10 5 2 - 1 4 0 6 | $\begin{array}{cccc} 0 & 2 \\ 0 & 10 \\ 0 & 10 \\ 1 & 2 \\ 0 & 2\frac{1}{2} \\ 0 & 1 \end{array}$ |

NEW PRODUCTS AND PACKS

Smaller-sized Toilet Sponge.—Sponcel, Ltd., Bromley, Kent, have introduced, in response to demands, a smaller-sized Spontex face sponge.

Small Sizes.—Gala of London, Ltd., Hook Rise, Surbiton, have introduced small sizes in the Gala perfume series of perfume stick, solid toilet water and talcum powder in six perfumes.

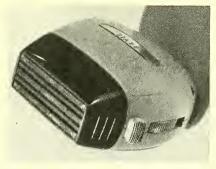
Addition to List.—Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have introduced Ambodryl elixir (No. 225)—each 4 c.c. of which represents 10 mgm. Ambodryl — in bottles of 4, 16 and 80 fl. oz.

A Bath for Infants. — E. K. Cole, Ltd., Southend-on-Sea, are marketing a new Plastabath for bathing infants. It is available with or without stand in pink, blue or ivory, with moulded-in soap and sponge trays. Trade inquiries are invited.

Massive-dose Bismuth Speciality.— C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.C.2, announce the introduction of a new speciality, Bismutho, presenting bismuth in massive dosage. A combined unit in cartons of thirty doses (i.e., one complete course of treatment, labelled ready for dispensing) includes a compound powder and sedative tablet. A diet sheet is enclosed for guidance of the patient. Announcements are appearing in the medical Press.

Low-sodium Diet for Infants.—Tru-food, Ltd., Green Bank, London, E.1, are marketing under the name Edosol a low-sodium synthetic milk powder designed specifically to replace milk in low-sodium diets for infants and adults. In composition and nutritional value it is similar to cows' milk. On reconstitution with water to a 12½ per cent. solution it has approximately the same protein, fat, carbohydrate and mineral content but a sodium content of not more than 1 mgm, per fl. oz., against a cow's milk sodium content of 14'2 mgm, per fl. oz. A leaflet and full information are available from the company.

A New Dry Shaver. — Outstanding features of the Arvin 33 electric dryshaver illustrated are its dual-voltage motor and its triple cutting-head of twice the normal length. The new model has been developed from experience with the earlier Slim-Twin de luxe and Consort shavers. The motor, of impulse type, is of new design; it embodies two coils of different voltage ranges; a contact assembly with fool-



proof starter mechanism, and a slide-action voltage selector. The instrument is supplied in any combination of two voltages from the following: 200/250, 100/125, 12 and 6. The car-home model needs no extra lead, the standard lead being adaptable to any voltage. The triple shaving head presents 390 cutting edges on its three shears, giving, it is claimed "three million cuts a minute." Inner and outer shears are hand-honed and hand-finished, and are self-sharpening in use. Spare cutting heads can be obtained to replace any damaged head, though the instrument continues to run on two heads mean-while. The case is of "contour" type.

PHOTOGRAPHIC NOTES

"Expensive" Features on Popular Camera.—Many "expensive equipment" features are claimed by Kershaw-Soho (Sales), Ltd., Mortimer House, 37 Mortimer Street, London, W.1, to make their popular-priced Kershaw King Penguin folding camera the finest value on the market. The camera is synchronised for flash, fully self-erecting, has a sports-type view-finder and tripod fitting.

Safelight Darkroom Lamps.—Two Philips safelight lamps tested were yellow and red; the full range includes also dark red, green, light red, yellow, and yellow green, their respective purposes being for the handling and processing of ortho and panchromatic films, bromide, contact and similar speed papers, and bromide paper again. A bulb of correct voltage needs to be used, as over-running the lamps affects the colour remittance. All the lamps are constructed with self-colour glass except the yellow green, which has a special ceramic finish. The distributors are Ilford, Ltd., Ilford.

An X-ray Intensifying Screen.—To meet the requirements of present-day radiographic techniques, which are turning to higher kilovoltages for certain x-ray examinations, Kodak, Ltd., Wealdstone, Harrow, Middlesex, have added the Kodak type-80 intensifying screen to their range. The new highspeed screen is coated with barium lead sulphate, a recently developed fluorescent compound for which is claimed a greater efficiency than that of calcium tungstate. Used at kilovoltages between 80 and 120 the intensifying screen attains a speed advantage of about fifty per cent. over calcium-tungstate-coated screens.

Tripod Head.—The Florijo tripod head, distributed by Ilford, Ltd., Ilford, is of brass finished in satin chrome. It is extremely well finished and beautifully made. A quarter turn of the locking screw either way causes the camera platform to be gripped so tightly that it cannot be moved by finger strength, yet the lightness of the accessory (4½ oz.) would not suggest such rigidity. The top plate is fitted with a ½-Whitworth screw, and the base has a Continental thread bush. The top is covered with green baize. The suppliers recommend this head for use with the more expensive miniature cameras, but in testing it even larger cameras were found to be supported quite steadily and safely.

Pan and Tilt Head.—For cine enthusiasts the Florijo pan and tilt head, distributed by Ilford, Ltd., Ilford, has many advantages, Weighing 18 oz., it is finished in black crackle, with camera platform and rotatable base of aluminium alloy. The base has a Continental thread bush, the head an English thread screw (4-Whitworth). The base, which turns through 360°, is locked in position by a knurled screw fitted at the side, The camera platform tilts about a horizontal spindle in the bracket, and may be locked by a half-turn of the panning handle, which is 9 in. long and projects 30° upwards from the camera axis, The camera may be given a 90° vertical tilt. The locking is secure. The accessory may be employed for heavy still cameras as well as cine cameras, and on being tried out with a half-plate outfit it was found, when placed on the Ilford heavyweight tripod, to hold the camera with perfect rigidity at any angle.

Retouching Colours. — Among amateur photographers who like to their negatives, prints, or lantern slides, or even merely to spot dantern stides, or even merely to spot or retouch them, Martin's retouching dyes (Ilford, Ltd., Ilford) shou'd find a ready sale. The dyes are supplied in black, brown and grey, each bottle-cap being fitted with a glass "dip-stick" for taking out small quantities of the dye on to the palette. Tests of the dye on to the palette. Tests show that large areas can be built up show that large areas can be built up by successive applications, and con-siderable body can be imparted to flat, greyish prints, or backgrounds can be worked in.—Another colour accessory available from Messrs. Ilford is a neat card box con-taining three tubes of glossy re-touching colours and three pure sable brushes (Nos. 0, 1 and 2). The colours are blue black black (brown black) and are blue black, black (brown black) and brown (sepia). Tested on glossy prints, the colours dried with a glossy sheen and were quite invisible. On a glazed print the addition of the colours could be detected, but when used moistened with gum arabic instead of water the work was barely distinguishable.—The Ilford spotting and retouching colours are issued in a card box. The outfit contains eight china pans of colour. each wrapped in lead foil and labelled inside and outside with the name of the colour, and three sable spotting brushes (Nos. 0, 1 and 2). Inside the wrapping the colour itself is protected with a piece of transparent plastic, which it is suggested should be kept in place when the colours are not being used, in order to exclude dust. In test use the wide range of colours enabled the image colour of any print to be matched perfectly, whether in black or sepia tones,

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LARKHALL, Lanarkshire

LARKHALL, Lanarkshire

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

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Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565
TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

The Old Folks Stay Put?

WHEN the Council of the Pharmaceutical Society of Great Britain announced recently that the intention of establishing a home for elderly retired pharmacists was being temporarily shelved there was no great outcry. The old folks, even though their hearts may be sad and dreary, are apt to take things more quietly than the young. To speak up for their own age group might, too, seem like self-pity, and furthermore, every old person is apt to think an old people's home is a very good thing in theory, yet to hope most fervently that he himself will always have his own home around him or be able to spend his last days with his family. Still, there must have been some quiet disappointment among members of retiring age, and indeed one or two have written in to us on the subject, not wanting their names to be mentioned. They refer more in sorrow than in anger to the inconsistency of shelving the old people's home at a time when the policy towards the convalescent home is what it is.

Birdsgrove House and its grounds are a beautiful and restorative setting in which to get well. It is admirably conducted, with a care for the morale as well as the physical well-being of its constantly changing occupants. Small wonder that so many who have recuperated there write glowing "testimonials" in its visitors' book, or that branches of the Society vie with one another to add to its amenities. It could be argued, too, that the idea of keeping the charges low is in keeping with the principle behind the National Health Service—not to burden the sick with anxieties about cost. Nevertheless, members of the Society, like members of the community, must from time to time examine the financial basis on which a welfare scheme rests. If the Government of the day considers that the National Health Service is costing the country too much, it institutes an inquiry, and even those who think its particular investigation is misdirected must concede the general duty and responsibility.

So far as Birdsgrove is concerned, the situation is that the rates of charge no longer bear the relationship to the cost of living which they bore when they were set. Rising costs of catering and maintenance have led to sharp advances in hotel charges, and every housewife knows how her own budget has been hit. Inability to meet costs from fees has led to the closing down of an exceptional number of nursing homes. Yet charges at Birdsgrove House remain static. There is, then, the paradox of accumulating comforts and ameni-

ties (for example, new equipment for indoor and outdoor sports), side by side with an increasing and littleheard-of drain on the Benevolent Fund. If the Society's membership at large had consciously weighed up the pros and cons and decided that in all the circumstances the facts we mention represent a right and proper situation, well and good. But we have some reason to doubt whether the drain on the Benevolent Fund is widely known or universally approved.

The Society's function of benevolence—one of its Charter purposes—needs surely to be exercised impartially on behalf of every section of its members—the destitute, the sick and the old. It is opportune to ask whether at the present time that benevolence is not being channelled more plentifully to one favoured section of the membership than to others.

Scientific Initiative in Industry

THE familiar cry for better and wider use of scientists, technologists and engineers in industry is taken up once again by the Advisory Council on Scientific Policy (see p. 159). (That body, it is worth pointing out, now numbers among its members an industrial pharmacist).

Arguing that it is "no accident" that the enormous growth of American production has coincided with an increasing representation on management boards of scientists, the Committee points out that technically unbalanced boards cannot take advantage of the results of scientific research with the necessary speed and enterprise. If Britain's industries are to be at an advantage in competitive world markets, the emphasis in the development of new industries such as penicillin production needs to be on new methods rather than the extension of existing methods. The Committee recommends that Government departments, Research Associations, or both, could foster development work by placing development contracts. It hopes that the appropriate authorities will give "further and urgent consideration" to the machinery necessary for extending their work. In that connection it is to be noted that considerable allocations are being made in 1953-56 for development work from Economic Aid derived from the United States (see p. 154).

CORRESPONDENCE

PRICES ON GOODS

SIR,—May I suggest to manufacturers of proprietaries that their products should be distinctly priced—not, say, "Price 6d., plus tax," as some have been priced, but "Price 6d. plus tax 1½d., total 7½d." That would obviate a great deal of searching price lists. Sometimes those lists are misleading when assistants are busy. Often clients have to be kept waiting so that prices can be checked, and that is not helpful to clients, especially when the shop is busy and others are waiting to be served.

For those manufacturers catering for Christmas trade, would it not be possible for them to price their articles on the back or base of each package, coffret or whatever it may be with a perforated gummed label with code number and price thus:— "No. 136a: 13/6. 154a: 15/4," the code number adhering to the package and the price being on the perforated part which could easily be detached by client or assistant. A great many clients object to having prices marked on packages. The code numbers could represent price in shillings and pence. I also suggest that small price tickets should be put inside each box or package, so that when a display is made the price ticket is clearly shown to the advantage of everyone.

SCOTTISH CHEMIST

Onward from Galen

A CURRENT CAUSERIE

THE 30-pfennig stamp illustrated is one of a series being issued in Western Germany to commemorate the one-hun-

DEUTSCHE 30 BUNDESPOST dred-and-fiftieth anniversary of the birth of Baron Justus von Leibig (C. & D., May 9, p. 476). The colour of the stamp is blue.

THE association of pharmacy with the mineral water business, not very close in these days, is perpetuated in the name Camwal, which originally stood for Chemists Aerated and Mineral Waters Association, Ltd. (the company had a pharmacist as chairman as late

as 1922). Struve, the inventor of carbonating machines, was a German apotheker, while the now world-famous business of Idris, Ltd., was founded by a Welsh pharmacist whose other claim to fame was that he purchased a Welsh mountain. Yet it must be conceded that, having largely established the industry, pharmacists handed it on. There is, therefore, undoubtedly an element of "discovery" in the paragraph of a Channel Islands newspaper columnist Meridian, who referred recently to a ginger-beer bottle found by a workman in foundations in St. Helier. It was a glass bottle "of the old style, complete with glass marble," and bore the inscription "J. T. Baker, Waterloo Pharmacy." Meridian probed a little more deeply and found that one of the two pharmacics of Mr. H. Le Quesne, St. Helier, was, prior to 1914, carried on under the style and title of the bottle inscription. Baker, like many a mainland pharmacist, at any rate before the turn of the century, also conducted a mineral-water business. The bottle, Meridian concludes, "is apparently of pre-1914 vintage." Yes, and probably much earlier.

4

REPORTING on the recent meeting of the British Medical Association at Cardiff (C. & D., July 18, p. 49), Mr. Cyril Dunn in The Observer of July 19 wrote that British doctors seemed to go to the scientific sessions to gather ideas for immediate use in their practices, not to be blinded by the wonders of their own developing science. "For instance," he explained, "at the session on antibiotics—the modern Big Five ranging from penicillin to terramycin—the main objective of most speakers was to encourage restraint and rethinking about their use. Indeed the Press were begged to stop hailing new 'wonder drugs' before they had been given a proper trial. Doctors find it embarrassing," Mr. Dunn continued, "not only here but in the [United] States where apparently G.P.s feel themselves obliged to maintain a close watch on Readers' Digest in order to keep up with the medical knowledge of the patients. 'They bring me cuttings' said a G.P. from New York, sombrely." Apropos the general remarks on the science sessions of the B.M.A. conference, might it not be better if the British Pharmaccutical Conference science sessions were addressed to the general practitioner of pharmacy? There is no doubt much valuable information to be gained from a study of the papers read at the Conference each year, but many of the papers must to the majority of pharmacists seem rather to illustrate the virtuosity of the authors than to enlighten the practising phar-While the structure of the Conference science sessions is perhaps a matter for debate, there would probably be little argument among pharmacists on the subject of Press publicity for "wonder drugs." The freedom of the Press is accepted as sacred; all the more reason therefore why journalists should not abuse it. A little learning can be dangerous; and there is not a little danger in many modern drugs that are used otherwise than under medical supervision. Thanks to Press publicity, perhaps also to the banishment of Latin, and partly to the dispensing of drugs in their original containers, prescriptions are nowadays not within the circle of the professions as they were, and in consequence an unfortunate practice has begun whereby, under a misguided philanthropy, patients share their medicine with their friends. Press and other publicity on the dangers of the practice would be welcome.



CHEMISTS have had to put up with a certain amount in the way of stage representation from time to time. But not generally have they suffered as badly as they did on television on August 8. Saturday evening viewers are regaled with a mystery thriller called the Quartermass Experiment. Three men set out in a rocket; when the rocket returned from space and landed "near Wimbledon" only one man was inside. He is changed. The theory is that some beings from space have taken possession of him. He kills people in a mysterious way. He is himself now being hunted. The final scene on Saturday night was in a pharmacy with a very fussy and quite incredible chemist, who explained that it was really past closing time and that "if it is really bad you must go to a doctor." The chemist remained unruffled despite the strange appearance of this man who did not speak, but when he unbound the covering round the man's hand he fainted, pulling down a clattering pile of pills and bottles. After that episode pharmacists everywhere will hardly be able to wait for next Saturday's thrilling instalment to see what happens when a Man From Space visits a chemist's shop.



To demonstrate to the farming community that the Agricultural Research Service employs "some of the best scientific brains in this country or elsewhere," the Agricultural Research Council, which organises the Service, has just published a book (Agricultural Research Service, H.M. Stationery Office, price 2s. 6d.), devoted to the Service's history and divers activities. Like many research organisations it sprang from work by individuals sometimes acting alone, Rothamsted Experimental Station, for example, the oldest agricultural research institute, was founded (in the year in which the Pharmaceutical Society received its charter) by Sir John Lawes, who later maintained it for many years out of his own pocket. Other organisations were formed by an association of farmers or horticultural growers to attack particular problems. Today, in addition, there are twenty-seven officially sponsored research stations, but they are based on the old institutions and are administered by independent and unpaid governing bodies. The book pays tribute to the services rendered by the research departments of manufacturers and "other unofficial organisations." Although such work is outside the Council's control, the Council takes account of it when planning its official programme.

SCILLAE

SCILLÆ red and scillæ white Onions of the sea.
Red, like Hamelin's piper
Leads rats to disaster.
White, a friend of man,
Cures coughs when he can.

HERBERT A. BERENS

Building up a VETERINARY BUSINESS

By CASTRA

THE pharmacist who intends developing the veterinary side of his business must first rid his mind of many illusions which still exist as to the type of business done with farmers today. I say farmers advisedly, as the assumption is that it is intended to develop that side of the business rather than cater for the purely domestic animal trade. The type of business done will depend, of course, on what type of farming is carried on in the district. In Middlesex, for instance, the accent is on pigs. In Lancashire, poultry is the main interest, in Hampshire the turkey trade has grown considerably and is now greater than that carried on in Norfolk. But whatever the type of livestock reared, the fact remains that, by and large, the pharmacist in recent years has been extremely slow to take advantage of the business that is there.

Opportunities Lost

In former days many pharmacists in country areas did a good business in drenches of one kind or another for almost every animal complaint. That trade is today almost non-existent. Few farmers use any of the old-type drenches, with the possible exception of cleansing drenches. The recognised firms of animal medicine makers, whose turnover depended mainly on that type of business, are now finding it necessary to move with the times and include in their price lists the more modern drugs of which even the most hide-bound farmer has today a working knowledge. And there, sad to say, is where the pharmacist has

missed his opportunity.

There is no need for a farmer to send away for supplies of, say, sulphadimidine for use in coccidiosis in poultry, when his nearest chemist can supply. But that is what happens in many parts of the country, the local chemist just not bothering to keep it in stock. And at 75s, a halfgallon bottle, showing a generous rate of profit, it is well worth bothering about, particularly as a really big poultry farmer may use, in the season, up to three or four gallons. Perch paint is another useful item that has a good sale, though of course in much smaller amounts. For many years a 40 per cent. solution of nicotine sulphate has been the most popular form of perch paint, but a non-poisonous product has been introduced by a leading manufacturer and is selling extremely well. During the winter months cod-liver oil, though not a big profit line, has a steady sale for almost all stock. Of recent years, however, there has been a swing towards the vitamin A and D meals, of which several brands are available. The scourge of feather-pecking and cannibalism, though best treated at source by alteration to the diet, and avoidance of overcrowding, can be treated locally by the supply of various anti-pecking ointments which are more or less efficacious.

Turning to the pig trade, an equally large field presents itself with the supply of pig oil in 1-gall. and 5-gall. drums, in sodium fluoride pig worm powders, in various fattening products, as well as in such items as pig rings and ringers, sow nose-punches, sow harnesses and drenching syringes (the latter indispensable if worming is carried out with the chenopodium castor-oil mixture that is popular). Here again the vitamin meals are good sellers, and during the winter a wonderful business can be done with the various types of infra-red lamps on the market. As a result of experiments in America many pig farmers are investing in piglet foster-mothers, electric or otherwise, which in any case are useful pieces of equipment to have. Some breeds are prone to large litters and many farmers

find it policy to take five or six piglets away from the sow a day or two after farrowing and rear them on the foster-mother. Used in conjunction with an infra-red lamp, the system can produce extremely fine litters.

Another branch of farming well worth looking after is the dairy herd. Here the use of approved detergents and sterilisers is compulsory, and although the items are bulky to handle, the trade is an all-the-year-round one with reasonable profits. Udder creams, warble dressing in the season, mineral feeding supplements and licks are all ancillary lines which have a good sale to the cattle man, and of late years the quaternary ammonium compounds have become popular as a precaution against mastitis. Farmers in low-lying areas frequently need fluke and worm drenches, and for cases of milk-fever there is a call for calcium borogluconate in sterile solution, which the farmer injects subcutaneously with one of the several types of syringe made for the purpose.

The sheep farmer needs dips, usually preferring the modern non-poisonous "single" dips to the older arsenical or phenol dips, Foot-rot ointments and paints are well in demand, and in certain areas where the soil is deficient in cobalt and other elements various "pine" and "swayback" remedies are sold. The routine worming of sheep is an accepted practice in most areas, though the worming of cattle and poultry is not looked on as of such importance. It is well to encourage farmers in the matter of worming stock, and good supplies of phenothiazine, both in powder form for sheep and cattle and in tablet form for poultry, should always be available. Incidentally, it is as well to remember that phenothiazine is of no use in the treatment of pigs for worms. For pigs, use is made of the two drugs already mentioned, namely, sodium fluoride and chenopodium in castor oil.

In addition to the purely veterinary products outlined there is a continuous call for such other lines as non-poisonous disinfectants, Dettol and Jeyes fluid in 1-gall. containers being probably the most popular. In my own business I have gone very much farther towards supplying the full needs of the local farmers than perhaps is possible in the average pharmacy as I stock such varying items as milking coats, udder-cloths, electric fencing and barbed-wire! For stocks of that kind one needs plenty of space and reasonably rapid sources of supply to avoid holding enormous stocks.

Selling to Farmers

And now a word or two regarding the actual selling part of the business. Farmers are a race very different from any other section of the community and require very special handling. In normal retail pharmacy the representative who tries to sell a chemist a new product on the grounds that his competitor has bought a supply will almost certainly be shown the door. But when introducing a product to a farmer probably the first question will be whether his friend at the next farm up the lane has bought any. An answer in the affirmative will usually clinch the sale. Farmers are very conservative-minded men and usually want a very good reason indeed before they make a change. The idea of a chemist supplying their needs, though perfectly logical to us, at first fills them with suspicion, the first query being: "Will you charge any more than I am paying at present?" But farmers also hate book-keeping and paper-work generally, which is where

one may get in. Obviously it is better for a farmer to buy all his veterinary supplies from one source, paying no delivery charges or wasting money on postage, than for him to run ten or twenty small accounts with firms scattered over the country. Another advantage to him is that most veterinary travellers call only twice a year, expecting the farmer to lay in stocks for six months ahead. The idea that he can come into one's shop and buy a single jar of udder cream or one paint stick just as he wants it appeals to him very much. And if, after the business has developed sufficiently, the chemist can actually deliver his bulkier items to the farm by van, then indeed he becomes the farmer's friend for life.

What to Stock

In the initial stages of building up a veterinary supply business an important point is to ensure that only well-known lines are stocked and recommended. The farmer may not know the chemist who makes the sale, but at least he knows the products he is buying. There may be a strong temptation to calculate how much extra profit one can make by putting up one's own drenches, etc. Don't do it—at least not until you have been in business long enough for your farming customers to trust you. And that will take long enough! It is far better to build up a business of this type on quick-selling branded makes than to try to make big profits on lines that will be viewed with suspicion, And suspicion is one thing that the average farmer has in abundance.

As the business develops one may perhaps contact a firm that specialises in packed veterinary lines under one's own name. Even small orders can be supplied so marked, and the packs are reasonably good, the profit exceptionally so. There are, of course, certain drug firms that have a whole range of animal products which they refuse to sell to the pharmacist, dealing only with the veterinary profession. Who those firms are is soon discovered. No doubt the discovery will influence the pharmacist in deciding which products he will recommend when asked for his views.

The two major points in developing a business of the type described I have left until last. They are, first, the question of running accounts with farmers; and secondly, the attitude of the local veterinary surgeons.

On the question of payment of bills by farmers a good deal of nonsense has been talked, and no doubt will continue to be talked. When I first started my own business, which now has on its books some 500 farm accounts, the cry went up from various "well-wishers" "You will never get your money." That is nonsense. Of those 500 farmers with whom I do business, only two have been slow enough to warrant a solicitor's letter. The legend of farmers wanting six months' credit, or even twelve months', has grown up by virtue of the fact that, in the old days, they had a settling-up once a year, after the harvest, or else paid the agricultural traveller when he called, which was at the most twice a year. That being accepted custom, the firms doing business with the farming community were in no hurry to send invoices or statements, and even today one still meets the old-established agricultural firm that takes six months to invoice goods and anything up to a year to send in a statement. Small wonder that firms of this type think nothing of having outstanding accounts of two and three years' duration.

In my experience regular invoices with monthly statements bring the money in satisfactorily, the average length of time elapsing between invoice and payment being approximately five weeks. A small discount for payment within fourteen days is also helpful.

In most districts, but particularly within fifty miles of London, the farming community can be divided into three distinct classes. First there is the real working farmer, whose family have been at it for generations. Secondly there is the wealthy young intellectual whose family has

probably provided the capital for his first attempt at farming and whose knowledge is mainly theoretical. Lastly there is the farm run as a subsidiary of a big commercial undertaking, normally managed by a bailiff and reasonably efficient staff.

The first and third categories are good payers. But avoid class two like .the plague—charmers, all of them, but mostly losing money hand over fist! One such farmer of this type in my area came to me for advice regarding the weighing of live poultry. I sold him the copper cone and chains provided for the purpose and suggested that he should use his dairy milk scales, already calibrated in pounds and gallons, to do the actual weighing. He looked at me in horrified amazement: "That won't work," said he; "The dairy scale weighs pounds of milk. I want to weigh pounds of chicken!" Needless to say he left the shop triumphantly carrying a brand new but quite unnecessary set of scales with him. The working farmer will always pay his way, very often wanting to pay cash for every transaction. The third category, popularly known as "surtax" farms, will also be prompt, as invoices go to the parent company, probably a large firm hundreds of miles away, and go through the accounts department for payment regularly and efficiently.

Relations with Veterinarians

Finally, there is the thorny question of the pharmacist versus the "vet." Although I shall probably shock many people, it is a fact that whilst one will get no open opposition from local veterinarians, he will receive little cooperation or assistance either. Make no mistake about it, the merest suggestion that one is selling anything at all to a farmer for his livestock will immediately put the "vet." on his mettle. That thinly-veiled hostility does not exist between doctor and pharmacist, but it most certainly exists where the veterinary surgeons are concerned. The difficulty is aggravated by the fact that the farmer today is seriously concerned at the mounting bills from his "vet.," particularly as they are rarely itemised and he does not know what he is paying for anyway. The result is that, once he realises that the chemist has a working knowledge of animal ailments, he tends to come to him for advice in an effort to save money. Whatever the temptation, never, never fall into that trap! Never diagnose and never prescribe. The function of the veterinary pharmacist is to sell the farmer what he asks for and nothing clse. If once it be discovered that a chemist has attempted to treat an animal, or even to suggest what the ailment might be, one's days as a veterinary supplier will be numbered. I am continually meeting this problem, and it is wisest to tell the farmer exactly what the position is from the outset. In most cases he will appreciate the position, and any further embarrassment, not only from being asked questions about the stock, but also from having the stock brought in to the shop, will be avoided. I have had fifteen live turkeys brought to me at the same time, and on one famous occasion had difficulty in persuading a farmer that there really was not enough room in the dispensary for a thorough examination of the more personal parts of a young Guernsey bull!

Although, as I have indicated, prescribing and diagnosing are "out," it is as well to contact the local veterinary surgeons at the outset and tell them that you are opening a special department for the needs of farmers. In most cases they will be more interested in the veterinary instrument side of it than in the drugs themselves. If a professional discount is allowed them they will probably get into the habit of drawing such odd items as pig-rings, bull-rings, syringes and so on from the chemist who has approached them in that way. At the same time they will also send farmers to you for equipment they do not stock themselves, such as piglet foster-mothers and infra-red lamps.

The above is intended as a rough guide, based mainly on my own experiences during the past twelve months. It may be useful to summarise my views in the form of ten golden rules. They could well be the following:—

1. Never prescribe or diagnose animal ailments.

- Get to know the local "vets." and tell them what you intend doing.
- 3. Keep to well-known makes of livestock remedies.
- 4. Don't be frightened of stocking large sizes. Farmers rarely want small packs of anything but believe in buying the largest size available to save money.
- Take small but regular spaces in the local papers to advertise your service. For a start the poultry or livestock "small-ads" columns would suit admirably.
- 6. Send out invoices and statements promptly and regu-
- If you do not stock, or cannot obtain a line, tell the farmer so. Never attempt to talk him into an alternative, but wait until he asks for it.
- 8. Take a farming paper regularly and study the adver-
- Circularise your farmer customers at intervals with the help of one of the big drug firms (they will do this for you free if you provide the notepaper).
- Don't rush things. It will take a long time to get the confidence of farmers, but once you have it it is worth a great deal.

A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS

A co-director recently obtained a loan from the company but it is now understood that a limited company may not legally make loans to its directors. What consequences are there to this lapse, and what is the position now?

PRESUMABLY this is not an exempt private company (see answer to question 6, C. & D., July 18, p. 67) since it would then be in order to make a loan of this nature. It is not otherwise lawful to make loans to a director or even to enter into any guarantee or provide security if any other person makes a loan to him. An exception is made where the loan was required for the purposes of the company or of enabling the director properly to perform his duties as an officer of the company. Such loan must have prior approval or be made conditionally on the subsequent approval of the company. If such approval is not forthcoming, the directors authorising the loan may be jointly and severally liable for any loss.

I am a part-time director in a company which is owned by my wife. My income is inadequate to give me all the allowances which I can claim. Must I wait until the end of the tax year for repayment, or is it possible to obtain some relief from our joint earnings now?

APPLICATION for a revised coding for both husband and wife should be immediately made. By its means the balance of allowances available may be utilised by the wife. Restriction of the husband's allowances by reference to his possible earnings as a director of the company may be resisted.

It should be remembered that if, after deducting allowances, the husband's income is insufficient to absorb all the reliefs at the reduced rates, the unused portion cannot be taken against the wife's earned income since she already obtains her own reduced rate reliefs on that income. It could, however, be taken against her unearned income on which reduced rate relief is computed as legally part of the husband's income.

I have been contemplating the signing of a deed of covenant for the Pharmaceutical Society's Benevolent Fund. Are there any pitfalls to be avoided?

UNLESS a deed is drawn up for the stated period, the annual payment will be taken by the Inland Revenue as still being part of the payer's income and the Benevolent Fund entitled to exemption will be unable to obtain tax relief. A deed would entitle the Fund to gross up the sum received at the standard rate of tax and recover such tax, whilst the covenanter can claim the gross amount as reducing his total income and his surtax liability. The same payment therefore gives greater benefit

same payment, therefore, gives greater benefit.

Care may need to be taken that the covenant does not rise to an increased income-tax assessment, the Inland Revenue claiming that the minimum liability of the tax-payer must be the amount of tax deducted from the covenanted sum. A deed, of course, commits the parties to meet their obligations thereunder, and due consideration should be given to the involvement for the stipulated period of time.

You have no doubt come across the revised scale of expenses issued by the United Commercial Travellers' Association of Great Britain and Ireland. Would these allowances, stated as a fair standard, be agreed by the Inland Revenue?

THE scale to which reference is made is recommended as a revised reasonable allowance for a representative who provides and maintains his own car for the purpose of transacting business for his firm. It is a guide to employers and employees when agreeing a fair expenses allowance between themselves but it specifically states the actual cost of petrol and oil, incidental parking, ferries and tolls, etc., on business journeys should be reimbursed as and when incurred. The list is of little use in agreeing expense claims with the Inland Revenue, as each instance must be considered on the facts, though it may perhaps be usefully quoted where evidence is called for but is lacking.

We are a retail business with two partners and we draw regular weekly sums without deduction of P.A.Y.E. It occurs to us that we may be wrong in this and we should be glad of your advice.

THE firm itself is responsible for the liability on the assessment on the agreed profits, and each partner will have been given his due allowances in determining that liability. Drawings are on account of profits, and until those profits are known at the end of the period, the assessment to tax on the business cannot be raised and the individual shares of liability worked out. Such shares include salary, interest on capital, etc., and the liabilities will be debited by the firm to each partner.

It may be considered prudent to deduct tax from partners' drawings and to hold deductions in reserve, but there is no legal necessity for that or to pay deductions over to the tax collector. Although directors of small limited companies frequently refer to themselves as partners, in the eyes of the law they are employees of that company and are liable to P.A.Y.E.

We are considering a change in the date of the end of our financial year to bring it into line with associated companies—can this be done without offending any provision of company law?

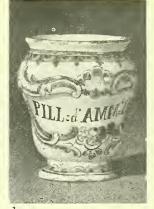
A COMPANY is at liberty to alter its financial year, but its directors must not overlook that in every calendar year there has to be laid before the company in general meeting a balance sheet and also a profit-and-loss account covering the period since the preceding account, made up to a date not earlier than the meeting by more than nine months (extended to twelve months where there are interests abroad or where the Board of Trade permits). Further, not more than fifteen months must elapse between each annual general meeting.

An alteration in the date of the accounts may involve revision of the previous year's assessment to tax with a consequent additional or reduced assessment. The Commissioners of Inland Revenue by this means even out the effect of bringing a period into charge more than once or

omitting it altogether.









DRUG JARS AS A PHARMACIST'S HOBBY

By L. J. CHAMBERLAIN, M.P.S.





HAVE always been interested in the past, in history, and in antiques of all kinds, and some few years ago I was looking in the window of an antique shop when 1 saw two tall blue and white jars (illustration No. 1), bearing names which were more or less unknown to me but with an obviously pharmaceutical flavour. Without









knowing what they were, I was at once most attracted to them, and on inquiry found they were indeed pharmacy (or drug) jars, Spanish in origin, made in Catalonia during the first half of the 18th century. The purchase of those two jars did something to me, for they opened up a whole field of interest, study, and pharmaceutical history, and they were the beginning of my present collection. The inscriptions on the jars are G. Heder. (ivy resin, used as a depilatory) and R. Tormertill. (tormentilla root, still used by the herbalist as an astringent).

I have acquired many more drug jars since then, and have found them a most fascinating hobby. What associations these old jars have with the past, with old pharmacies (long before the days of shop-rounds), with the ancient apothecaries, and what a wealth of interest lies ir discovering their place of origin, their date of manufacture and the meaning of their inscriptions, mostly long out of date.

Knowledge Slowly Acquired

Now, I profess no expert knowledge on the subject; wha I know of these jars has been rather slowly acquired, for there is little literature about them, but with each fresl addition, and by comparing jar with jar, that knowledge is increased. How exciting is the possibility of finding something rather unusual, a rare shape or uncommon name, or a jar in absolutely perfect condition, which, alas few of them are. A dated jar is to be prized, for by fa the majority are undated, and a dated jar not only is de finite as to its own age, but also a great help in decidin that of others. Many of these jars are carefully, eve beautifully, painted, and speak of an age when life wa more leisured than today, and when the craftsman wa supreme, for of course they are hand-wrought and hance painted. The majority are painted in blue (a cobalt pig ment) on a white ground, but green and orange, yello' and purple, are all found. Not every jar bears the nam of its contents (the very early jars in particular are from quently unnamed) but the majority do, and what relic

of bygone medicine and pharmacy those names are! R. ASARI. (asarum root), THER. AND. (theriaca andromachi), T. DE VIPERA. (viper lozenges), MEL. AEGYPT. (Egyptian honey, containing verdigris, and used for ulccrs!), and then names centuries old but still in everyday use—SYR. TOLU., LENET. ELECT., etc.

Some years after my initial purchase I was able to acquire three more jars of the same set, having chased them round the country from one antique dealer to another! Their tall, waisted shape, known as the albarello, is the

one most frequently met.

My next acquisition (No. 2) was what I take to be a French or Italian jar. This is decorated in several colours, and a rather pleasing motif of flowers, bees, birds, and robust cupids, with a human figure in the foreground, and labelled UNG. APOSTOL. (ointment of the twelve apostles) with twelve ingredients. This jar, presumably eighteenth century, has a typical white glaze and appears almost like porcelain. I should add that drug jars were mostly made in clay once fired, usually thick and heavy, and then covered with a tin-enamel glaze, the decoration being under the glaze.

Illustration No. 3 shows a little French pill pot of the eighteenth century, standing only $3\frac{1}{2}$ in. high, decorated in the usual blue colouring and bearing the unusual inscription PILL. D'AMMO. DEOB. The lines flow more freely than on English jars of the same period and the whole shape and decoration are particularly graceful. The wording appears rather strange, and puzzled me for a long time, until I found the word "deobstruent" in a modern English dictionary as something that removes an obstruction. There used to be a purgative deobstruant pill in the Edinburgh Pharmacopæia, which contained, among other ingredients, ammoniacum. That perhaps gives a clue to the meaning of the inscription.

Jars of Italian Origin

The many Italian potteries produced innumerable drug jars, some of which are not easy to place exactly. A very interesting specimen is seen in No. 4. This jar, which stands 9 in. high, is dated on the back 1679, and bears the inscription in rather large letters, FILONIO ROMANO. This is the old name for London philonium, or confection of opium, a remedy described originally by Galen and containing many ingredients, mostly of no value. Painted in a misty blue on a greyish ground, the decoration includes two animals of which one is a dog while the other appears to be a goat. It also bears the initials G.B. The coat of arms, below the inscription, is picked out in bright yellow and orange. Many Italian jars have these eoats of arms. Others have a monastic badge, as the earliest pharmacies, if they can be so called, we e apparently found in the great houses of the nobility, or in the monasteries. Of course, whole sets of the same design would have been made, but few remain intact.

Fig. 5 (a and b) shows a very colourful spouted jar of Italian origin, with very bold floral painting in a vivid dark blue, green, orange, purple and yellow on a white ground, the colours almost entirely covering it. Be'ow both spout and handle is a very freely painted head, probably of a saint, a favourite decoration on early jars. Spouted jars were made, of course, for oils or syrups, but many have had either spout or handle damaged. By comparison with a large jar of similar design and decoration in the Victoria and Albert Museum, this would appear to be from a Venetian workshop, circa 1560. It is the most highly coloured jar of all my collection, and has been much admired.

Another Italian oil jar is seen in No. 6 (a and b). This jar, again with spout and handle, and labelled OLL. LAURINI, is of most delicate design and painting. The criss-cross lines on the neck may show its origin in the potteries at Faenza. The painting, which is in a light blue on a clear white ground, takes the form of leaves and

tendrils and fine whorls, all beautifully executed. The wording, which is charmingly painted, is in a distinctive greyish blue. My wife found this particular jar so attractive that I made her a present of it.

The foregoing are all in the ware known as maiolica or faience, but the next two are Dutch jars made in the famous Delft potteries and hence so called. No. 7 is a confection jar circa 1750, of a shape frequently met with but with a rather unusual decoration. The jar, which is very typically painted in blue on a white ground with a high glaze, bears the factory mark LPK—the lampetkan or ewer. The inscription, C. ALKERMES, is confection of alkermes (or kermes) which was made from kermes, rose water, cinnamon and sugar. Kermes were round grains, like a pea, found on a species of ilex tree in Southern Europe, and caused by the exudations of certain insects, much as shellac is produced by the lac insect. Red in colour, it had many medicinal uses.

Not many pharmacy jars bear a pottery mark. Marked jars are the exception rather than the rule, but are more often found among Dutch ware than any others. A version of the usual decoration of Dutch jars is seen in No. 8, though the shape of this jar is rather unusual. It is in fact a water bottle, and the inscription is the abbreviated form of AQUA CARDUI BENEDICTI (water of the holy thistle), a plant still described in herbal manuals and recommended for curing colds! This "bird and basket" design is perhaps the most frequent decoration on Dutch jars, though the birds usually look more like peacocks, whereas the ones here are like crows. Dutch jars are generally highly glazed and carefully painted.

The jars so far described are fairly representative of the European ones in my collection; the remainder are English. It is easy to distinguish English ones from Continental jars, other than Du'ch, not only because the shapes and designs are different, but because the whole "feel" is different too. Produced first at Lambeth during the second half of the 16th century, the jars were for about a century painted with geometrical patterns, but later, about 1652, began to be decorated with a label (or cartouche) with the name of the contents and with a mask or grotesque at each end. This was followed, about 1660, by the well-known "angel with wings" design, the angel's head being









11

above the cartouche and the wings extended out over the ends of it, and terminating in large "claws." The head of the angel, which is fairly plain at first, gradually gets a fuller and fuller wig, until he ends up, about 1690, with a full-bottomed one. No. 9 is a large jar of this design, standing 8½ in. high, with a scrolled cartouche bearing the words C. PRUN. SYLVEST. (conserve of sloes, made simply from the pulp of the fruit and sugar, and used as an astringent). This jar is of date about 1684, and is a very typical Lambeth specimen with a milky white glaze with a pinkish tinge.

An attractive little jar of the same period is seen in Fig. 10. This stands only $3\frac{1}{2}$ in. high, is dated 1689 and bears the initials W.B., probably those of the apothecary for whom it was made. The label is T. CYPHEOS, or incense lozenges, made from a dozen or so aromatic ingredients, and used themselves as an ingredient in the celebrated mithridate, which itself had forty-nine ingredients! I often wonder who, and what kind of a man, "W.B." was. I picture him in his seventeenth-century diess, with a full wig, standing in his apothecary's shop, surrounded with whole shelves of these charming blue and white jars, as old pictures show us. He would be compounding such things as dried vipers, crab's claws, millipede wine, and dispensing the numerous confections, boluses and electuaries which were so popular in his day. And, if he were a Londoner, what customers he may have had, with names famous in history, what scenes he must have witnessed, and what discussions on medicine and politics (in 1689) after hours!

A rather later jar (first half of the 18th century), No. 11, is shown with the "bird and basket" design, in which

the angel's head has become very small, like a cherub, and is below the cartouche. It has a rather unusual shape, being broad and squat. C. CARD, would appear at first sight to be something to do with cardamoms, whereas actually it is cardiac confection, or cordial confection, a warming and stimulating preparation with a dozen or so ingredients. This jar, probably from the Bristol potteries, has rather a different colouring and glaze from the two preceding Lambeth ones. The design is not quite so frequently met with as that seen in illustration No. 12, known as the "cherub and shell," where the two birds are replaced by cherubs bearing branches of leaves in their hands, and the basket of fruit by a kind of shell. A rather different cherub's head appears below the cartouche. This rather handsome spouted jar is for syrup of rhubarb, or RHABARBARUM as it was then known, circa 1750. It stands 7½ in. high and is painted in a very pleasing light blue on a rather pinkish glaze which shows the "crazing" so typical of Lambeth ware of the period. It has a handle on the other side, though not all English syrup jars have one.

Space forbids describing any more of my collection, but these twelve jars are a good cross-section of the whole. The Continental jars are mostly displayed in my pharmacy, on the dispensing screen and round the tops of the fixtures, where they attract considerable attention. The English ones I keep indoors in the study, where they are shown to their best advantage on dark oak. It is difficult to describe fully the attraction and interest these relics of a bygone age hold for me, but I hope this short article may be the means of interesting a few fellow pharmacists in this most fascinating subject.

Manufacture at Ulverston, Lancs, of PENICILLIN, STREPTOMYCIN and VITAMIN B_{12}

N continuous production since April 1948, the antibiotics plant of Glaxo Laboratories, Ltd., situated at Ulverston, North-west Lancs, contributes substantially to home and overseas supplies of penicillin, streptomycin and vitamin B₁₂.

Hitherto, little information has been disclosed about the works and what goes on in them.

The location at Ulverston was decided upon after application to the Board of Trade in January 1945 for a building site. The 140-acre triangular-shaped area at Ulverston offered direct access to the sea along the east side of the Furness peninsula. Alongside it ran the Bardsea branch line of British Railways (Midland Region) with 8,000 yards of sidings; and there were ample water supplies from the

ncighbouring canal, as well as gas and electricity. The local man-power situation was entirely favourable, and the comparative nearness of the company's other antibiotics plant at Barnard Castle, co. Durham, was an additional advantage. The site was accordingly acquired, in July 1946. By the following January work had begun, and only sixteen months later, on April 14, 1948, the first fermenter was seeded, the initial batch of penicillin following a few days later.

In less than twelve months the first fermenter hall was complete, the foundations of the second had been laid and its steel-work was in position. The fermenters, installer at the rate of one every two weeks, were at first devoted to penicillin manufacture. The second fermentation hall



completed in 1949, was turned over to large-scale manufacture of streptomycin. Today one hall is devoted to penicillin manufacture and the other mainly to streptomycin.

Most of the 350-ft. long, multi-story main building is devoted to penicillin and streptomycin extraction processes and ancillary departments. On the ground floor are loading bays, dispatch section, plant-rooms, and offices, and the first floor is devoted to storage and batching. Inoculum production (for the seeding process), and chemical and biological control laboratories are conveniently sited near operating levels. The laboratories carry out four-hourly tests during each fermentation run, check sterility, $p_{\rm H}$, etc. On the third floor are stored liquid raw materials (acids, corn steep liquor, etc.). Elsewhere in the main blocks are sections carrying out extraction processes on penicillin and streptomycin, production of which is similar up to the fermentation stage. In the solvent extraction and purification of crude penicillin from the broth, followed by its precipitation as a crude salt, batteries of centrifuges are used. The crude penicillin is converted to crude sodium or potassium penicillin solutions which are filtered and crystallised under conditions of sterility, and solvent or procaine hydrochloride added to give the desired end product.

In streptomycin manufacture the drug is separated from the mould by vacuum filtration, adsorbed in an ionexchange process, and eluted with acid. The solution is converted to a crude but crystalline salt, calcium-chloride complex, which can be converted to streptomycin sulphate or dihydrostreptomycin as desired. Seitz filtration and freeze-drying operations ensure sterility in the product.

A new three-story building has been erected to deal primarily with finishing operations on penicillin and streptomycin. Commenced in 1949, it is now in full commission. Operations carried on in the new unit include sterile recrystallisation processes on penicillin, finishing processes on streptomycin and dihydrostreptomycin, and streptomycin freeze-drying. Final tests on the finished products are carried out in the same unit, the ground floor of which is devoted to sterile crystallisation on penicillin, and the first floor to streptomycin finishing and freeze-



Freeze-drying is an operation of importance at Ulverston and demands its own department and array of modern plant.

drying. Also in the sterile area are cold, milling, wash-up and sterilisation rooms, and a sampling department under the control of the analytical department.

Two departments (analytical and process investigation) are housed in the top story, the former carrying out the analytical work on all finished products and certain raw materials, and the latter charged with the investigation of process problems. The analytical department includes two chemistry laboratories, a biological assay laboratory, media preparation and sterility testing sections, balance room and control laboratory. A feature of the biological assay laboratory is a plate reading projection section, with projectors capable of handling 200 samples daily. The laboratory is equipped with several incubators in which automatic temperature recorders give continuous day and night readings.

Samples from every batch of penicillin and streptomycin are examined in a sterility-testing room for freedom from contaminating moulds and bacteria. Distilled water on tap is a feature of two chemistry laboratories that handle penicillin and streptomycin respectively.

The process investigation department comprises four laboratories: Biochemistry and biological; physical chemistry; organic and analytical; and experimental. The section includes a dark room with polarimeters for penicillin assay and a statistical section.

The administration centre for the plant is located in a country house over 125 years old, formerly occupied by the North Lonsdale Iron and Steel Co. In it are the director in charge of fermentation operations and his staff; administrative departments; accounts costing and wages sections; and teleprinters linking the plant with the company's headquarters at Greenford and its plant at Barnard Castle. The latest development is a new multi-story production block now in an advanced stage of construction.

MEDICAL ABSTRACTS

NEW DRESSINGS

FAVOURABLE reports are made by Rice and others (Practitioner, 1953. 171. 66) on the use at the Nottingham General and Children's Hospitals of a dressing impregnated with 5-amino acridine hydrochloride, mercury succinimide and zinc stearate or of a jelly containing those compounds in a methyl cellulose base. In vitro tests showed no instance of resistance in 1,172 test organisms that had been derived mainly from wounds and injuries in the casualty departments of general hospitals. All common wound-contaminating organisms, including Pseudomonas pyocyanea, were sensitive to the compound. Favourable clinical results occurred in seventy-two cases of burns and scalds in a children's hospital, in ten cases of chronic discharging sinuses, and in eighteen cases of varicose ulcers.

The dressing was found to be non-greasy, easy to handle, and it did not stick to instruments or to the fingers. It permitted free drainage and ventilation of wounds, and was not difficult to remove,

METHOXAMINE IN TACHYCARDIA

The successful use of methoxamine against attacks of supraventricular tachycardia complicated by vascular collapse in two cases is reported by Berger and Rackliffe (Journal of the American Medical Association, 1953. 152. 1132). Both patients were over sixty years of age: to one 20 mgm. of methoxamine was administered intravenously and to the other 10 mgm. intramuscularly. In each case a normal sinus rhythm was observed within a few hours after the injection. One patient was discharged from hospital on the second day and there was no further tachycardia during the remainder of the second patient's hospital stay. The authors emphasise the rapidity of, and safety in, action of the drug which they contrast favourably with other drugs. Methoxamine does not cause cardiac irritability. In that respect it is safer than phenylephrine which has a similar pharmacological action against tachycardia. They consider that if further experience confirms the safety of methoxamine it may become the drug of choice in the treatment of supraventricular tachycardia.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have been added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 12: There was little interest in the markets during the week, a holiday mood prevailing. Price movements were confined chiefly to CRUDE DRUGS, and were not substantial.

In that section Papaln was among the chief changes, the East African grades one and two falling from about 38s. and 36s. per lb. respectively to 36s. and 32s. per lb. spot. CASCARA was weaker; with offers for shipment at 230s.—235s. per cwt. c.i.f. Benzoin, Sumatra No. 1 was scarce, but eased to £30 per cwt. spot and £27 c.i.f. for shipment. IPECACUANHA was a difficult market with little Nicaraguan root available. There was however a cel of Nicaraguan, untested, There was however a par-46s. 6d. per lb. Colombian was offered nominally at 40s. per lb. The firming tendency in Senega continued, up to 15s. per lb. c.i.f. being asked, and some traders had only shipment prices. The ERGOT market was cleared of spot material, but prices for the Portuguese grade for shipment hardened to about lds, 9d. per lb. c.i.f. LOBELIA herb had fallen by a halfpenny a lb. to 2s. 7d. The SEEDS market remained quiet with little price movement.
Brazilian MENTHOL, spot, eased by a shilling to 37s. per lb., duty paid.
Among SPICES TURMERIC Madras finger rose to a minimum of 110s. per cwt. PEPPER was quiet, and prices for white Sarawak sagged to 9s. per lb. spot, and 8s. per lb. afloat. Black Malabar was quoted nominal on the spot a little lower at 1,050s. per cwt., but Black Sarawak, which was scarce, was quoted at 8s. per lb. spot. African Gin-GER f.a.q. was slightly lower at 92s. 6d. per cwt. spot although many grades were being offered. Jamaican No. 3 for shipment was lower by a shilling a cwt. at 101s. Zanzibar CLOVES were lower on the spot by sixpence at 8s. 6d. per lb. The prices quoted for shipment were from 5s. 3d. per lb. for August-September. In Gums there was a slight easing of the price of Acacia for August-September shipment. There were a number of changes chiefly in a downward direction in Waxes. Spot quotations for SHELLAC F.O.T.N. pure and F.O. standard No. 1, hardened to 237s. 6d. and 245s. per cwt., respectively.

In ESSENTIAL and EXPRESSED OILS Chinese Peppermint, Arvensis eased to 25s. per lb. spot, and Brazilian was quoted forward easier at 13s. per lb. Citronella eased, Ceylon to 1b. CITRONELLA eased, Ceylon ce 2s. 9½d. per lb. c.i.f., and Formosa, spot, to 3s. 8d., in bond, and 3s. 6d., c.i.f.

There were no significant changes in PHARMACEUTICAL and FINE CHEMICALS. The Ministry of Food announced that no change would be made in the prices of unrefined oils and fats and technical animal fats allocated to primary wholesalers and large trade users during the four week period ending September 5, 1953.

So far as can be ascertained the current strikes in France have to date caused no supply difficulties with pharmaceutical companies in Great Britain.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, AUGUST 11: PHARMACEUTICAL and FINE CHEMICALS market, Brazilian MENTHOL continued to ease, falling to \$5.55 per lb. (down 10 cents), while Synthetic Menthol declined to \$5.65 (down 10 cents). ETHYLHEXYL ALCOHOL was reduced to 24 cents a lb. (down $2\frac{1}{4}$ cents), and ETHYLENE DICHLORIDE dropped to 9 cents per lb. (down 1 cent). Also lower was DECYL BUTYL PHTHALATE at 31 cents a lb. (down 2 cents). The market for CRUDE DRUGS was quiet. Higher per lb. were VANILLA BEANS, with Bourbons at \$5·10 (up 20 cents), cut Mexicans at \$4·90 (up 40 cents), and whole Mexicans at \$5·00 (up 25 cents). Also higher was SENEGA at \$2.25 (up 30 cents). Whole IPECACUANHA was lower at \$5.25 (down 5 cents) and the powdered root dropped by the same amount to \$5.75. Trade in ESSENTIAL OILS showed greater activity. Higher per lb. were Fennel at \$2.75 (up 50 cents), and Dalmatian SAGE at \$6.85 (up 10 cents). Lower per lb. were CLOVE at \$9.00 (down 25 cents), and CARAWAY at £2.35 (down 5 cents).

Pharmaceutical Chemicals

AMIDOL.—In 14-lb. lots the price is 19s. per lb.; 7-lb., 19s. 6d.

AMMONIUM CARBONATE. — B.P. lump is £73 5s. per ton; POWDER, £76 5s. BICARBONATE is £48 15s, per ton; all delivered free United Kingdom in non-returnable packages.

ATROPINE. — Rates per oz. for British material are: —ALKALOIDS, 43s, 6d, (1,535s, per kilo); SULPHATE, 37s, 6d, (1,323s, per kilo) for 16 oz. (500 gm.) lots. Lower quotations for larger quantities.

BORAX.—Prices for B.P. grade, for quantities of 1 ton and upwards are as follows:—Granular, £48 10s.; crystals, £51; powder, £52; extra-fine powder, £53 per ton. Prices of commercial range from £39 10s. to £44 per ton, as to type, and dehydrated borax is £59 10s. per ton in 140-lb. paper-lined hessian bags or £58 10s. in 1-cwt, paper bags; carriage paid in Great Britain. Surcharges for smaller quantities as for boric acid.

CALAMINE—I cwt. lots are now 1s. 8½d.

CALAMINE.—1 cwt. lots are now 1s, 8½d. ner lb.

Calcium chloride. — B.P. crystals are ls. $0\frac{1}{2}$ d, per lb. in 1-cwt, lots and exsiccated, $9\frac{1}{2}$ d.

CALCIUM GLUCONATE. — Quantities of 3 cwt. and upwards are quoted at 4s. per lb.; 1 cwt. to 2 cwt., 4s. ld.; smaller quantities, up to 4s. 4d. per lb.

CHALK.—In minimum 1-ton lots powder is £21 and cones, £22 10s, per ton.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s, per lb., in 1-cwt. drums. Chloroform.—1-cwt, lots in winchesters are now 3s. 6d, per lb.; 56-lb., 3s. 6\frac{1}{2}d. ln drums, prices are 3s. 4d. and 3s. 4\frac{1}{2}d.

DICOPHANE (DDT)—Prices are as follows:—1-cwt. lots, 3s. 1d. per lb.; 1-ton, 2s. 10d. Lower prices for greater quanti-

HYDROCYANIC ACID. — Dilute B.P.C., is from 1s. 4d. to 1s. 11d. per lb., as to quantity; Scheeles is from 1s. 8d. to 2s. 3d.

HYDROGEN PEROXIDE.—20 vols. is 4s. 2d. per gall, for carboy lots.

10DINE and preparations. — Quotations are as follows:-

| | Per 1b. | | Per kilo | | |
|---|---|---|--|--|--|
| B.P. materials | 1-cwt. | 28-lb. | 50 kilos | 12½ kilos | |
| POTASSIUM IODIDE SODIUM IODIDE IODINE, RESUB IODOFORM POWDER IODOFORM CRYSTAL | s. d. 14 4 15 10 15 10 25 4 28 0 | s. d. 14 10 16 4 16 4 25 10 28 6 | s. d. 31 7 34 11 34 11 55 10 61 8 | s. d. 32 8 36 0 36 0 57 0 62 10 | |

- B.P.C. is ISOPRENALINE SULPHATE. 2s. 4d. per gm. for 100-gm. lots.

LEAD ACETATE.—B.P. crystals are 180s. per cwt., and technical, 160s.

LITHIUM SALTS. — Current minimum rates (5-cwt.) are as follows:—BENZOATE, 10s. 6d. per lb.; carbonate, B.P.C., 10s. 9d.; chloride (commercial), 10s. 3d. to 10s. 6d.; hyproxide, 10s.; citrate, B.P.C., 8s. 6d.; sulphate, 8s.; salicylate, 9s. 3d. (10-cwt.), delivered.

MAGNESIUM CARBONATE. — Minimum bulk rate for LIGHT is 121s, per cwt.; HEAVY is 156s., nominal.

Magnesium hydroxide.—Makers' prices for B.P.c. are: 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

Metol. — In 1-cwt. lots the price is 24s, 6d, per lb.; 28-lb., 25s, 6d.; 14-lb., 27s.; 7-lb., 28s.

- Prices per kilo are:-NIKETHAMIDE. 1-kilo, 121s.; 50-kilos, 105s.

1-kilo, 121s.; 50-kilos, 105s.

PARAFFINS. — Prices to wholesaler distributors are as follows: —Liquid: Heavy, B.P., £98 17s. 6d. per ton; Light, B.P., £81; light Technical white, £68 10s., all in 40-45-gall. returnable loaned drums, delivered U.K. Soft: White, medium consistency, £86 2s. 6d per ton; White soft consistency, £84 and YELLOW, £64, all B.P., in non-returnable drums, delivered. Hard: Melting point, 135/140° F., is £72 15s.; 145/150° F., £80; and 160/165° F., £100 per ton, in minimum-ton lots, ex works.

Paraldehyde,—Carboy lots of pharmaceutical grade are 1s. $10\frac{1}{2}$ d. per lb.

RIBOFLAVINE. — Price (per kil £43 15s, and 100-kilo lots, £43 10s.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER, ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. te 2s. 2½d. per lb. ROCHELLE SALT. - Rates (per cwt.) for

SACCHARIN. — In lots of 1-lb, and over B.P.C. powder is quoted at 99s, 10d, per lb.; the SODIUM SALT is 80s, 10d, per lb Prices include duty and carriage.

SALICYLAMIDE. - Price (per 1b.) for 1cwt. lots is 8s. 6d.

SALICYLIC ACID.—Prices are: 5-cwt. lottin bulk, 2s. 11½d, per lb.; 1-cwt., 3s.; 56-lb., 3s. 7d.

SALOL.—Quotations for B.P.c. are abou 9s. per lb. for 1-cwt, lots.

Santonin. — The following prices now apply in the home market, including Eire:—5-kilo lots, £63 per kilo; 24-kilo lots, £54 l0s.; 1-kilo, £66; 500 gm.

TEREBINTH.—B.P. is 2s. 3d. per lb. fo carboy lots.

Crude Drugs

BENZOIN.—Good quality Sumatra block on the spot is scarce at £30 per cwt. No. 1 for shipment, £27, c.i.f.

CAMPHOR. — Chinese (B.P.) powder on the spot is 3s. $7\frac{1}{2}d$.; $\frac{1}{4}$ -oz. tablets are quoted at 5s. 3d. per lb.; $2\frac{1}{2}$ -lb. slabs, 4s. 9d. per lb., all duty paid.

Capsicums.—East African on stalk are 150s, per cwt., spot, and 130s., c.i.f., off stalk, 205s., and 175s., c.i.f.

CASCARA SAGRADA.—New-crop offers for shipment at 230s, to 235s, per cwt., c.i.f. September shipment, 252s. 6d, landed terms in bond.

CASCARILLA.—Siftings are 1s. 3d. per lb., spot and quillings, 1s. 6d.

CHILLIES.—Sierra Leone on the spot is 185s, per cwt.; for shipment, 150s, per cwt., c.i.f.; Mombasa are firm at 275s., c.i.f., with spot at 280s.

CINNAMON.—Ceylon for shipment (c.i.f.), OOOO, 2s, 6d.; OOO, 2s, 5d.; OOO, 2s, 4d.; O, 2s, 3d.; firsts, 1s, 11½d.; seconds, 1s, ½d.; thirds, 1s, 10½d.; quillings, 1s, 4d.; featherings, 10½d.; chips, 6d, per lb.

CLOVES. — Zanzibar on the spot are 8s. 6d. per lb., spot, c.i.f., for prompt shipment; 5s. 9d. for August shipment and 5s. 3d. for August-September shipment, c.i.f.

COCHINEAL. — Black-brilliant is 8s. $7\frac{1}{2}d$. per lb. and silver grey, 7s., spot.

COCILLANA. — Bark is 1s. 9d. per lb., spot.

COLCHICUM.—Corms on spot are offering at 2s. 3d. per lb., and seeds, 6s.

COLOCYNTH.—Pulp on the spot is 1s. 9d. per lb., duty paid.

ELEMI.—Offers are from 1s, 6d, per lb. landed, duty paid.

ERGOT. — Portuguese for shipment is 16s. 9d. per lb., c.i.f.

GALANGAL.—Spot material is now 90s. per cwt. with forward offers at about the same price, c.i.f.

GAMBOGE.—Good average Siam pipe is offering at £32 10s. per cwt., duty paid.

GENTIAN. — French natural on spot is 100s, per cwt., and 95s., c.i.f.; sliced, 115s., spot.

GINGER,—African on the spot, f.a.q., 92s. 6d. per cwt. and for shipment, 85s. c.i.f. Jamaican No. 3 is 107s. 6d. on the spot, and at 101s., c.i.f., for shipment.

GUAIACUM RESIN.—Quotations are about 3s. per lb. for spot material.

GUM ACACIA. — Kordofan cleaned sorts on the spot around 100s. per cwt. Offers for August shipment are 91s, 6d. afloat, and 87s, 6d, for August-September shipment. September - October shipment, 86s, 6d, per cwt.

HENNA. — Indian green leaves are at 75s. per cwt.; brown leaves, 65s., spot. No offers from origin. Sudanese are 100s., spot.

HYDRASTIS. — Root is 21s, 6d. per lb., anded terms.

IPECACUHANA. — Nominal offers of Colombian are at 40s, per lb., c.i.f., and Matto Grosso, 47s. Forward: Colombian, prompt shipment, 39s, per lb., c.i.f.; Nicaraguan, shipment quoted at 44s, per b., c.i.f. Spot parcel of untested root at 46s, 6d, per lb.

JALAP ROOT.—Vera Cruz is offering at from 3s. 2d. to 3s. 9d. per lb., according 0 test

KARAYA.—No. 1 gum on the spot is inchanged at 200s, per cwt.; No. 2 is 40s.; No. 1, for shipment, 185s., c.i.f.

Kola Nuts.—African halves are available on the spot at $4\frac{3}{4}$ d. per lb., $3\frac{3}{4}$ d., i.f., for shipment.

Lanolin.—B.P. anhydrous is £175 per on and hydrous, £155.

Liquorice.—Natural whole root, spot: Anatolian, 55s. per cwt.; Russian, 38s.; Syrian, 40s. to 42s, 6d. Block juice quotations are 185s. per cwt., delivered. Turkish stick is 240s. and Italian stick, 475s. per cwt., both duty paid.

LOBELIA.—Herb is offered at 2s. 7d, per lb., spot.

MACE. — West Indian pale blade is 7s. 9d. per lb, for shipment, 6s. 11½d., c.i.f.

MASTIC.—Tears (f.a.q.) are 12s. 6d. per lb., on the spot.

MENTHOL. — Brazilian is 37s. per lb., and Chinese, 38s., duty paid, spot. Shipment (c.i.f.): Brazilian, 34s., Chinese, 33s.

MERCURY.—Nominal spot value is £71 per flask, ex warehouse.

MYRRH.—Aden selected sorts are quoted at £16 per cwt, on the spot, Siftings are from £7 10s, to £8 10s., and granulated, £13.

Orris root.—Offers of average quality Florentine are about 155s, per cwt., exwarehouse.

PAPAIN.—Spot values for East African grade one are 36s, per lb., and grade two, 32s. per lb.

PENNYROYAL. — Quotations are about 12s. per lb., duty paid.

PEPPER.—Quiet. White Sarawak is now quoted at 9s. per lb., spot and 8s. to 8s. 3d. per lb. afloat. Black Malabar is nominal on spot at 1,050s. per cwt. Black Sarawak is scarce on spot and up to 87s. per lb. is quoted.

PODOPHYLLUM.—*Emodi* root on the spot is 170s, per cwt. *Peltatum*, 336s.

QUASSIA. — Shipment offers are about 31s. 6d. per cwt., c.i.f.

QUILLAIA.—Whole bark is £105 per ton, c.i.f., and spot, £125.

SEEDS.—ANISE.—Spot continues quiet, Cyprian is 137s. 6d. per cwt.; Turkish 140s. per cwt., duty paid and 135s. per cwt., in bond. Caraway.—Dutch are unchanged at 83s. 6d. per cwt., duty paid in London. Celery.—Indian remain steady at 1s. 11d. per lb., spot London. Corlander.—Small business reported. Spot Morocco is quoted at 60s. per cwt., duty paid and 55s. per cwt. in bond. English are 70s. to 75s. per cwt. Morocco for shipment is quoted at 50s. per cwt., c.i.f. London. Cumin.—Market dull. Spot: Cyprian 137s. 6d. per cwt.; Maltese 155s. per cwt.; Morocco 155s. per cwt., duty paid. DILL.—Indian is firm. Sellers asking 85s. per cwt., spot London. Fenugreek.—Morocco on spot is quiet and unchanged at 47s. 6d. per cwt., duty paid. For shipment business has been reported to London and Liverpool. Fennel.—Sellers on spot are asking 175s. per cwt., Mustard.—English 67s. 6d. to 87s. 6d. per cwt., according to quality.

SENEGA.—Firmer. For August-September shipment, 14s, 9d, to 15s, c.i.f.

SHELLAC. — Spot quotations are:— F.O.T.N., pure, 240s.; F.O. standard No. 1, 250s.; fine orange, 255s, to 285s. per cwt., ex-London warehouse.

TURMERIC.—Spot, Rajapore reported sold at 100s. per cwt., no Madras finger offering under 110s. per cwt.

WAXES. — BEES. — Dar-es-Salaam spot, 430s, per cwt., August-September shipment, 412s. 6d., c.i.f.; Sudanese and Abyssinian, 365s., c.i.f., spot, 420s., duty paid; Benguella, 370s., c.i.f., and 420s., duty paid. CANDELILLA.—Spot is 635s. per cwt. CARNAUBA.—Prime yellow on the spot is 1,250s. per cwt.: afloat, 1,220s., shipment, 1180s., c.i.f.; fatty grey is 990s, on the spot; afloat, 940s.; shipment, 920s., c.i.f. Montan.—Reibeck crude on the spot is 125s. per cwt. Ouricuri.—Spot 0.5 per cent. impurities, 730s. per cwt.—Spermaceti.—Case lots are 1s. 9d. per lb. upwards as to quantity.

Essential and Expressed Oils

ALMOND.—B.P. is from 6s, to 7s, 6d. per lb., as to quantity.

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

ANISE. — Spot supplies are offered at from 5s. 9d, per lb., 5s. 6d., c.i.f.

BAY.—W. Indian is 8s. 6d. to 9s. per 1b. on the spot.

BERGAMOT. — Spot value is about 82s. per lb.

BIRCH TAR,—Rectified is about 14s, per lb, in 1-cwt. lots.

Bois DE Rose. — Brazilian on the spot is 31s. and 29s. 9d., c.i.f.

CAJUPUT. — Spot supplies are 185, 6d, per lb.

CALAMUS. — Imported oils are offering from 57s, 6d. per lb.

CAMPHOR, WHITE. — Chinese is 3s, per lb., on the spot.

CANANGA. — Supplies to come forward are quoted at from 60s, per lb., c.i.f. Spot is from 70s, per lb.

CITRONELLA. — In original drums prices (per lb.) are:—Ceylon, spot, 3s., and shipment, 2s. 9½d., c.i.f.; Java, spot, 3s. 10½d., in bond, and shipment, 3s. 9d., c.i.f. Formosa, spot, 3s. 8d. in bond and 3s. 6d., c.i.f.

DILL.—B.P. English-distilled oil is quoted at 60s, per lb. Imported oils are offered at from 30s, to 40s, per lb., as to origin.

EUCALYPTUS.—Drum lots of 70 to 75 per cent, eucalyptol on the spot are 5s, per ib., and 80 to 85 per cent., 5s, 3d. Forward prices are 4s, 9d, and 5s, 1d., c.i.f., respectively.

Fennel. — Spanish sweet on the spot is quoted about 10s. 6d. per lb.

Garlic.—English is from 55s, to 60s, per oz.

GERANIUM. — Bourbon on the spot is 80s. per lb. Shipment, 77s., c.i.f.

GINGER. — English-distilled oil is from 120s, per lb. Imported oils are available at from 80s, per lb.

HYDNOCARPUS. — Spot is offered at 2s. 2d. per lb.

JUNIPER BERRY. — Imported oils are offered at 17s, 6d, per lb., duty paid, English-distilled is offered at 75s, to 80s, per lb.

LAVANDIN.—Spot value is 17s, per lb.

LAVENDER SPIKE. — Spanish is about 11s, per lb.

OLIVE. — Pharmaceutical oil in drums is from 24s. to 26s. per gall, on the spot, ex warehouse. French virgin (maximum acidity 1 per cent.) is offered for shipment at £270 and French Pharmaceutical (maximum acidity 0.25 per cent.), at £265 per 1,000 kilos, c.i.f., London. Spanish virgin is offered in drums on the basis of £250 per 1,000 kilos, f.o.b., Spanish ports.

ORNIGE. — Spot offers for sweet vary as to quality and quantity from 9s. to 10s. 6d. per lb.

PALMAROSA. — East Indian is from 42s. 6d. per lb., on the spot, and 37s. 6d., c.i.f.

PATCHOULI.—Seychelles for shipment is 52s, 6d. per lb. Penang for shipment is dearer at 50s, with spot offers at 55s.

PEPPERMINT.—Spot: Arvensis, Chinese, in drums is 25s, per lb., spot, and 22s, 6d., c.i.f. and Brazilian, 16s, Forward: Chinese, 23s, per lb., c.i.f. Brazilian, 13s., c.i.f. Italian "Mitcham" type oil is 49s. to 52s, 6d, per lb., as to quality, and forward from 47s, 6d., c.i.f.

ROSEMARY. — Spanish oil on the spot is about 5s, 6d. per lb., duty paid, for B.P. quality.

THYME.—B.P.C. is about 9s, 6d, per lb. VETIVERT.—Bourbon in original drums on the spot is about 117s. 6d. per lb.

PRINT AND PUBLICITY

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

British Schering, Ltd., Kensington High Street, London, W.8; "Aquaviron" (8-p. booklet).

BURROUGHS WELLCOME & Co., 183 Euston Road. London, N.W.1: "Histantin" (blotter); "Histantin," "Anectine" (6-p., folders).

EVANS MEDICAL SUPPLIES, LTD., Speke, Liver-pool, 19: "Sentests," "Oral Penicillin Ther-apy with Pradupen (8-p. booklets); "Ebefos" (4-p. leaflet).

PAINES & BYRNE, LTD., Pabyrn Laboratories, Greenford, Middlesex: "Thyrodex" (information card).

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "Thephorin" (card); "Redoxon"

Advertising Campaigns

Cussons, Sons & Co., Ltd., 84 Brook Street, Grosvenor Square, London, W.1: Biggest yet advertising campaign in full colour for Cus-sons Imperial Leather toilet soap links up with new counter display outer.

ENERGEN FOODS Co., LTD., Pound Lane, Willesden, London, N.W.10: Pilot campaign for Energen rolls and breakfast flakes in Kent in October. Full size packet of Energen breakfast flakes will be offered free to each purchaser of Energen rolls, who fills in coupon obtainable from Energen dealers, Special displays have been arranged. Advertisements will appear in *The Kentish Express, The Kent Messenger*, and *The Kentish Gazette* Energen customers selected from the company's own mailing lists are also being sent copics of the free offer coupon.

POTTER & CLARKE, LTD. River Road, Barking, Essex: Full-scale national and provincial Press advertising for Potter's catarrh pastilles and crystallised pastilles opens with Daily Mail's largest space $15\frac{1}{2}$ in. \times 6 columns on September 17. Advertising is starting also for Potter's asthma remedy in the big-circulation weekly illustrated magazines as well as national and provincial newspapers.

REMINGTON RAND, LTD., Commonwealth House, 1 New Oxford Street, London, W.C.1: "50-50 Dealer Advertising for the Remington 60 Electric Shaver."

Price Lists

DALMAS, LTD., Junior Street, Leicester: Price list of all company's products in the plaster, waterproof and etbical ranges. August 1, pp. 20,

STAFFORD ALLEN & SONS, LTD., Wharf Road, London, N.1: Essential oils and perfumery products price list, June 1953, available to wholesalers and manufacturers. Pp. 40.

TRUFOOD, LTD.. Green Bank, London, E.1: Sodium Synthetic Milk ' Edosol-Low Powder," pp. 4.

Booklets and Leaflets

A. E. W., Ltd., Imperial Works, High Street, Edgware, Middlesex; "Pottery and Glass Kilns," pp. 1; "A. E. W. High Efficiency Electric Furnace," pp. 1; "Electrically Heated Industrial Ovens," pp. 8; "Modern Electric Furnaces by A. E. W.," pp. 10.

BRITISH OPTICAL & PRECISION ENGINEERS LTD., Mortimer House, 37 Mortimer Street, London, W.1: Series of cight booklets on "Films for Industry": No. 1 "The Story and Background of Britain and her Industries," pp. 10; No. " Manufacturing-Goods and pp. 10; No. 3 "Transport and Communica-tions," pp. 10; No. 4 "Engineering and In-dustry," pp. 12; No. 5 "Building and Allied Trades," pp. 10; No. 6 "Chemistry," pp. 10; No. 7 "Business Practice and Factory Organ-isation," pp. 10; No. 8 "Athletics and isation," pp. 10; No. 8 Sport," pp. 10. The series The series is intended as a preliminary contribution to the solution of the problem of educating industry in the possibilities of documentary film as an aid to stimulation of production, industrial education, sales and sales training. The booklets list

films and filmstrips that are available for ındustria! use.

GLADYS BURLION PUBLICATIONS, Chittenden. Hawkhurst, Kent: "New Ideas for Staff Training," by Gladys Burlton, price 2s. 12-p. reprint of lecture given to the Industrial Welfare Society recently.

BURROUGHS WELLCOME & Co., 183 Euston Road, London, N.W.1: "Exhibitions Presented by The Wellcome Foundation," Summer 1953. Pp. 4

Dalmas, Ltd., Junior Street, Leicester: "Report on an Acridine with Organic Mercury Dressing." A reprint from The Practition A reprint from The Practitioner, 1953. 171, 66-70.

W. EDWARDS & Co. (LONDON), LTD., Worsley V. EDWARDS & CO. (LONDON), LTD., Worstey Bridge Road, Lower Sydenham, London, S.E.26: "Edwards Vacuum Coating Plant," pp. 8; "Speedivac Rotary High Vacuum Pumps," pp. 8; "Edwards Moisture and Mer-cury Vapour Traps," pp. 6; "Vacuum Notes," pp. 12 (reprints of the company's advertisements).

ENERGEN FOODS Co., LTD., Pound Lane, Willesden, London. N.W.10: "The Energen Book," pp. 50, price 2s. A guide to nutrition, Gives menus, food value tables, and 18-day weight reduction diet and advice on weight control.

HILGER & WATTS, LTD., Hilger Division, 98 St. Pancras Way, Camden Road, London, N.W.I: "Hilger Catalogues Classified in Instrument Groups," pp. 12; "Hilger Publications on Optical Metbods in Research and Industrial Control Laboratories." pp. 12; "Catalogue Publications on Control Catalogue Publications on Control Catalogue Publications on Control Catalogue Publications on C ndustrial Control Laboratories," pp. 12; Scientific and Technical Publications," pp. 18.

LONDON OFFICE MACHINES, LTD., 128 Terminal House, Grosvenor Gardens, London, S.W.1: "Curta," 16-p. booklet and 4-p. leaflet on 16-p. booklet and 4-p. leaflet on a pocket-size calculating macbine.

METROPOLITAN-VICKERS ELECTRICAL CO., Ltd., Trafford Park, Mancbester, 17: "Metrovick Infra-red Equipment," pp. 36.

POTTER & CLARKE, LTD., River Road, Barking, Essex; "1953-54 Campaign Folder." Introduces Potter's crystallised catarrh pastiles and gives details and prices of all Potter's tines National and provincial publicity campaigns out-lined, illustrated with specimens of advertising and display material.

REMINGTON RAND, LTD., Commonwealth House, I New Oxford Street, London, W.C.1: "Remington Rand News," No. 21, August 1953, pp. 6; "Management Views," July-August 1953, pp. 16. Folder describing the company's plan for local advertising of the razor. "The Shape of Business to Come." The The Shape of Business to Come," pp. Folder outlining the publicity campaign for the Remington 60 electric shaver.

Periodicals

INNOXA (ENGLAND), LTD., 1 Eden Street, London, N.W.1; "The Innoxa Approach," 1953, pp. 4.

JENOLITE, LTD., 43 Piazza Chambers, London, W.C.2: "Jenolite News," Vol. 5, No. 8, August 1953, pp. 4.

ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts: "The Roche Courier," Vol. 19, No. 6, 1953, pp. 4

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than tirst post on Wednesday of the week of insertion.

Tuesday, August 18

WALSALL Branch, Pharmaceutical SOCIETY. board room, General Hospital, Walsall, at 7.30 p.m. Meeting.

Wednesday, August 19

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, visit to Dovedalc. Coaches leave White Horse Hotel, Edmund Street, Birmingham, at 1.30 p.m.

ADVANCE INFORMATION

LONDON PHARMACY RAMBLERS are making a ridge walk in Hampshire (walking distance, ten or thirteen miles) on August 23.

TRADE MARKS

From the "Trade Marks Journal," July 29

For pharmaceutical preparations (5)

PROFENIL, 716,232, by Specific Pharmaceuticals, Inc., New York, U.S.A. KHELLAMONE, 716,535, by Neodrog, Courbevoie (Scine). France. TRAVIDAL, 717,030, by Organon Laboratories, Ltd., London, W.C.2. ARTHRI-Laboratories, Ed., Composition, PAX, 717,875, by Clinical Products, Ltd., Richmond. DRENALGIN, 717,974, by Stanning Proprietaries, Ltd., London, S.W.I. RE-SONIUM, 718,381, by Bayer Products, Ltd., London, W.C.2. ARTHREPSIN, 718,478, by Barbara Joan Renshaw, Macclesfield.

For perjumed soaps, toilet creams, powders, shampoo powders, dentifrices and preparations for the hair (3)

GIBBS, 714,833, by D. & W. Gibbs, Ltd., London, E.C.4.

From the "Trade Marks Journal," August 5

For essential oils (3) PLASTADOR, 711.828, by W. J. Bush & Co., Ltd., London, E.8

For non-medicated toilet preparations (3)

LE MUGUET DU BONHEUR, 713,225, Parfumerie Caron, Paris, France. GALAXY, FOXHUNTER, by Lentheric, Ltd., London, W.I. CUPIDS KISS, 718,793, by Rosedale Associated Manufacturers, Ltd., W.1.

For perfumes and toilet rouge (3) CALIFORNIAN POPPY, 717,890-91, by Jose-phine Kell, Ltd., London, W.1.

For all goods (3)

CYCLOTATE, CYCLOTIL, CYCLOTIN, CYCLOTON, 718.562-757, by Cyclo Chemicals, Ltd., London, W.C.2.

For paper and cards, all impregnated with in-

COX'S, B692,386, by James Cox & Co., South Harrow.

For antimalarial preparations (5)
SERAQUIN, 714,206, by Ward, Blenkinsop & Co., Ltd., London, W.1.

For all goods (5)

JUVENOLS, 713,656, by VCA Laboratories, New Jersey, U.S.A. CLEARASIL, 717,794, by Clinical Products, Ltd., Richmond. PERO-PEN, 718,592, by the Wellcome Foundation. Ltd., London, N.W.1. CYCLOPHIL, CYCLOTIL, CYCLOTIN, CYCLOTON, 718,747-59, by Cyclo Chemicals, Ltd., London, W.C.2.

For pesticides, herbicides and fungicides (5) PECEPAN, 718,926, by Pest Control, Ltd.. Bourn, Cambs.

For amæbicides (5)

AMEBATOL, 717,627, by The British Drug Houses, Ltd., London, N.1.

WILLS

Mr A. Burkinshaw M.P.S., 8 The Markel Place, Belper, Derbys, left £1,122 (£1,081 net). MR. T. W. SUDLOW, M.P.S., 88 Station Road Billingham, co. Durham. left £482.

MR. J. HILTON, M.P.S., 240 Regent Road Salford, Lancs, left £9,511 (£9,468 net).

MR. ERNEST ALBERT UMNEY, Pb.C., 66 Parl Street, London S.E.1, left £39,761 (£33,370 net) MR. M. B. COLLINS, M.P.S., 6 Windsor Park Six Mile, Thomson Road, Singapore, 1eft £5,757

MR. J. W. LAKE, M.P.S., 42 Old Tiverto Road, Exeter, left £44,458 (£44,098 net).

MR. J. R. GATHERUM, M.P.S., 333 Aust Road, Coventry, left £12,469 (£10,295 net).

Mr. H. T. MAUNDRELL, M.P.S., Calne, Borde Lane, Sittingbourne, Kent, left £8,015 (£7,94)

Mr. A. H. Mossom, M.P.S., 136 Sharr Lane, Ruislip, Middlesex, left £2,032 (£1,85

Mr. J. S. SHEARMAN, M.P.S., 198 Lowesto Road, Gorleston-on-Sea, left £11,658 (£11,5 net).

MR. C. L. LEVER, M.P.S., The National Licral Club, Whitehall Place, London, S.W.1, le £943 (£902 net).

THE CHEMIST AND DRUGGIST August 15, 1953 Achievement in our time 'If you would see my monument look around you.' That is a proud epitaph indeed, and it might stand in any modern garden to mark the achievement of George Russell. For this great lover of flowers and wisely simple countryman has enriched the herbaceous border with the green and loving fingers he coaxed out of the plain blue flower a glorious Russell Lupins. With gardeners forever in his debt. Achievement in our time comes only as flood of hybrids that have left it always came—by mastery of technique based on knowledge and devotion. It is our conviction that tude of a chemical house on which the health of men and the progress of this can also mark the attiindustry depend. FINE CHEMICALS

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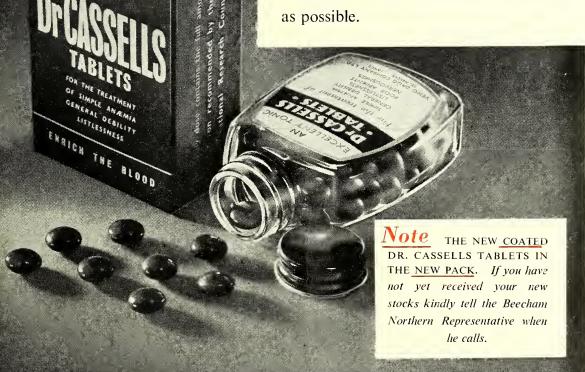
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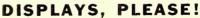
Enquiries to BEECHAM (NORTHERN) LIMITED, St. Helens, Lancs. Sole Distributors for Veno Drug Co., Ltd.



SEEING IS BUYING!

Liquid Beauty displays have a big influence with your customers. While a woman waits in your shop she'll see these smart new magazine she will want

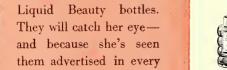
Displays are all-important when a new product is first marketed. That's why Goya hopes you will display Liquid Beauty in your windows, on your counters. Special display material that echoes the exceptionally heavy advertising is available -please use it to good effect.





TOP QUALITY FOR 5

Liquid Beauty is a luxu cosmetic range at the ve non-luxury price of or 5/-. The products top-quality and the adv tising (you've seen two girls?) is attract and hard-selling. Back up with displays and yo find that Liquid Bea sales will bring in ha some PROFITS.



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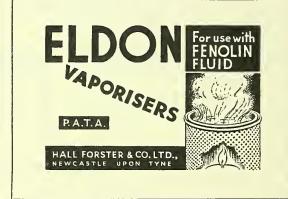
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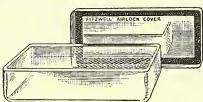
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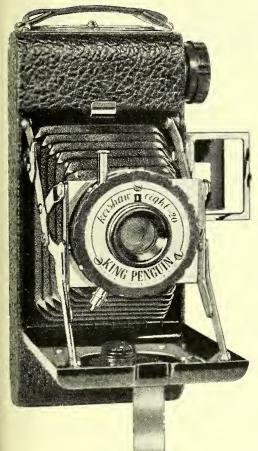
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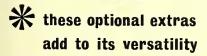
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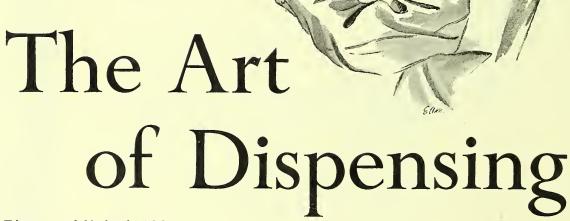
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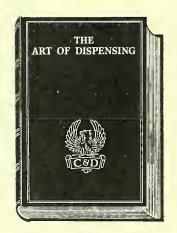
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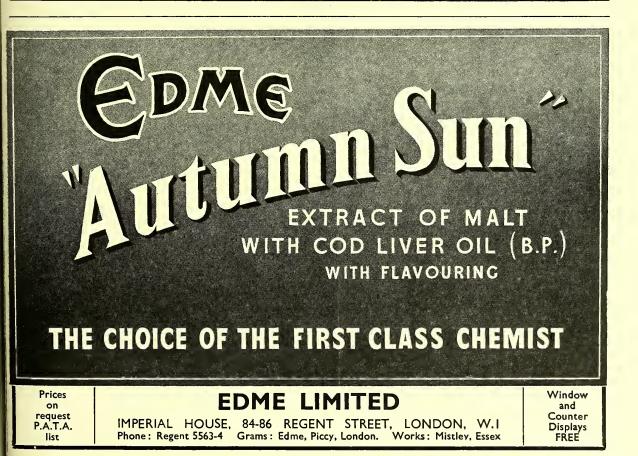
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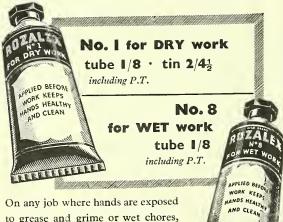
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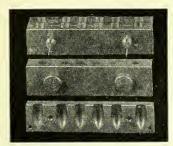
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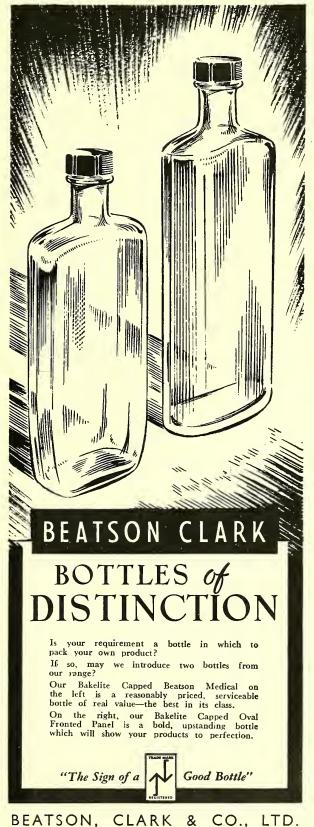
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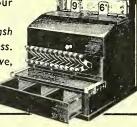
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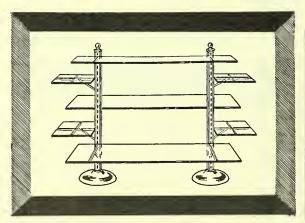
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